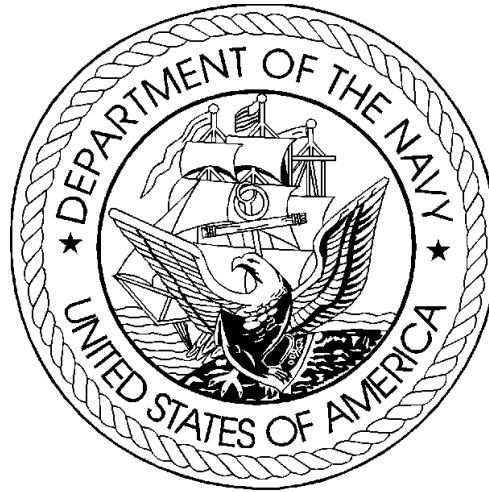


DEPARTMENT OF THE NAVY FY 1999 AMENDED BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES FEBRUARY 1998

PROCUREMENT OF AMMUNITION,
NAVY AND MARINE CORPS
BUDGET ACTIVITY 1

Department of the Navy

FY 1999 Procurement Program

Exhibit P-1

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS						S E C
				-----FY 1997-----	COST	-----FY 1998-----	COST	-----FY 1999-----	COST	
				QUANTITY		QUANTITY		QUANTITY		
BUDGET ACTIVITY 01: Navy Ammunition										

Navy Ammunition										
1	0145 General Purpose Bombs	A			25.1		12.5		22.9	U
2	0148 JDAM	B	46,061		-	668	28.6	898	41.4	U
3	0150 2.75 Inch Rockets	A			8.9		15.5		16.1	U
4	0155 Machine Gun Ammunition	A			5.2		9.4		8.8	U
5	0160 Practice Bombs	A			9.3		50.6		40.1	U
6	0180 Cartridges & Cart Actuated Devices	A			20.6		23.8		26.0	U
7	0181 Aircraft Escape Rockets	A			8.0		8.3		10.4	U
8	0182 Air Expendable Countermeasures	A			20.4		22.2		29.1	U
9	0184 Marine Location Markers	A			.4		.6		1.4	U
10	0194 JATOS	A			5.4		4.4		3.9	U
11	0250 5 Inch/54 Gun Ammunition	A			15.7		49.1		21.9	U
12	0253 Extended Range Guided Munitions (ERGM)	B			-		-		27.5	U
13	0260 CIWS Ammunition	A			-		.5		.7	U
14	0265 76mm Gun Ammunition	A			2.7		3.4		3.8	U
15	0270 Other Ship Gun Ammunition	A			4.0		4.4		4.5	U
16	0335 Small Arms & Landing Party Ammo	A			3.1		7.6		7.8	U
17	0340 Pyrotechnic and Demolition	A			9.9		10.0		8.9	U
18	0350 Mine Neutralization Devices	A			5.7		6.2		7.9	U
19	0370 Cancelled Account Adjustments (87)				.*		-		-	U
TOTAL Navy Ammunition					144.5		257.0		282.9	
* ITEMS UNDER \$50,000										

Department of the Navy

FY 1999 Procurement Program - Reserve Component

Exhibit P-1R

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS				S E C	
				-----FY 1997-----	-----FY 1998-----	-----FY 1999-----			
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
BUDGET ACTIVITY 01: Navy Ammunition									

Navy Ammunition									
1	0145 General Purpose Bombs (RESERVE)	A		.1		.1		.1	U
2	0150 2.75 Inch Rockets (RESERVE)	A		.1		.1		.1	U
3	0155 Machine Gun Ammunition (RESERVE)	A		.3		.3		.3	U
4	0160 Practice Bombs (RESERVE)	A		.6		3.3		2.6	U
5	0184 Marine Location Markers (RESERVE)	A		-		-		.*	U
6	0194 JATOS (RESERVE)	A		.1		.1		.*	U
7	0250 5 Inch/54 Gun Ammunition (RESERVE)	A		.*		-		-	U
8	0260 CIWS Ammunition (RESERVE)	A		-		.*		.*	U
9	0265 76mm Gun Ammunition (RESERVE)	A		.*		.*		.*	U
10	0270 Other Ship Gun Ammunition (RESERVE)	A		.*		.*		.*	U
11	0335 Small Arms & Landing Party Ammo (RESERVE)	A		.*		.1		.1	U
12	0340 Pyrotechnic and Demolition (RESERVE)	A		.1		.1		.1	U
TOTAL Navy Ammunition				-----		-----		-----	
				1.4		4.0		3.4	
* ITEMS UNDER \$50,000									

Procurement of Ammunition, Navy & Marine Corps
Program and Financing (in Thousands of dollars)

		Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
Identification code	17-1508-0-1-051	1997 actual	1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
Program by activities:							
Direct program:							
00.0101	Proc Ammo, Navy	144,495	257,018	282,866	182,258	211,913	256,680
00.0201	Proc Ammo, MC	132,141	124,560	146,673	192,747	92,497	147,268
00.9101	Total direct program	276,636	381,578	429,539	375,005	304,410	403,948
01.0101	Reimbursable program		10,000	10,000	2,092	10,000	10,000
10.0001	Total	276,636	391,578	439,539	377,097	314,410	413,948
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)		-10,000	-10,000		-10,000	-10,000
14.0001	Non-Federal sources(-)				-4		
17.0001	Recovery of prior year obligations				-16,504		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-132,136	-46,283	-123,451
21.4003	Available to finance new budget plans	-15,520			-15,520		
21.4009	Reprogramming from/to prior year budget plan	-1,900					
22.2001	Unobligated balance transferred from other ac	-2,100			-2,100		
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				46,283	123,451	149,042
39.0001	Budget authority	257,116	381,578	429,539	257,116	381,578	429,539
Budget authority:							
40.0001	Appropriation	273,903	397,547	429,539	273,903	397,547	429,539
40.7601	Reduction pursuant to P.L. 105-56 (-), 8041		-6,969			-6,969	
41.0001	Transferred to other accounts (-)	-16,787	-9,000		-16,787	-9,000	
43.0001	Appropriation (adjusted)	257,116	381,578	429,539	257,116	381,578	429,539
Relation of obligations to outlays:							
71.0001	Obligations incurred				377,093	304,410	403,948
72.1001	Orders on hand, SOY					6,425	6,425
72.4001	Obligated balance, start of year				275,314	370,187	371,799
74.1001	Orders on hand, EOY				-6,425	-6,425	-6,425
74.4001	Obligated balance, end of year				-370,187	-371,799	-403,696
78.0001	Adjustments in unexpired accounts				-16,504		
90.0001	Outlays (net)				259,291	302,798	372,051

Procurement of Ammunition, Navy & Marine Corps
Object Classification (in Thousands of dollars)

Identification code	17-1508-0-1-051	1997 actual	1998 est.	1999 est.

Direct obligations:				
125.101	Advisory and assistance services	2,651	4,404	4,402
	Purchases goods/services (inter/intra) Fed accounts			
125.303	Purchases from revolving funds	101,870	98,638	118,525
131.001	Equipment	270,484	201,368	281,021
		-----	-----	-----
199.001	Total Direct obligations	375,005	304,410	403,948
Reimbursable obligations:				
	Purchases goods/services (inter/intra) Fed accounts			
225.303	Purchases from revolving funds	2,092	10,000	10,000
		-----	-----	-----
299.001	Total Reimbursable obligations	2,092	10,000	10,000
999.901	Total obligations	377,097	314,410	413,948
		-----	-----	-----

Comparison of FY 1998 Program Requirements as Reflected
in the FY 1998/FY 1999 Budget with FY 1998 Program Requirements as
Shown in the FY 1999 Budget Request (In Thousands of Dollars)

	FY 1998 Total Program Requirements <u>Per FY 1998 Budget</u>	FY 1998 Program Requirements <u>Per FY 1999 Budget</u>	Increase (+) or Decrease (-)
BA 1: Navy Ammunition	237,978	257,018	+19,040
BA 2: Marine Corps Ammunition	98,819	124,560	+25,741
Subtotal Direct Program	336,797	381,578	+44,781
Reimbursable	10,000	10,000	0
Total Fiscal Year	346,797	391,578	+44,781

BA 1: The FY 1998 President's Budget reflected \$237.978 million for Navy ammunition procurement in the Procurement of Ammunition Navy & Marine Corps (PANMC) appropriation (BA1). The Congress added \$10.0 million for Practice Bombs, \$22.5 million for 5/54 Ammunition, and \$1.750 million for Machine Gun Ammunition. Additionally, the Congress reduced funding as follows: Section 8041 Contract Advisory and Assistance Services (-\$0.303 million); Section 8043 1.5 percent General Reduction (-\$4.065 million); Revised Economic Assumptions (-\$1.363 million); and Section 8106 Warranty Savings (-\$0.479 million). Funding in the amount of \$9.0 million was reprogrammed from JDAM to the Other Procurement, Navy (OPN) appropriation to allow more economic procurement of SLAM-ER. JDAM funds were available due to a reduced requirement for BLU-109 bomb bodies.

BA 2: The FY 1998 President's Budget reflected \$98.819 million for Marine Corps ammunition procurement in the Procurement of Ammunition Navy & Marine Corps (PANMC) appropriation (BA2). The Congress added funding as follows: 5.56mm All Types (+\$3.0 million); 7.62mm All Types (+\$3.0 million); Linear Charges All Types (+\$7.5 million); 40mm All Types (\$1.5 million); Fuze All Types (+\$3.5 million); and Rockets All Types (+10.0 million). Additionally, the Congress reduced funding as follows: Sect 8043 1.5 percent General Reduction (-\$1.899 million); Section 8043 Economic Assumptions (-\$0.637); and Section 8106 Warranty Savings (-\$0.223).

Reimbursable Orders: The FY 1998 President's Budget contained \$10 million for Reimbursable Authority. This amount remains unchanged in the FY 1999 President's Budget.

Comparison of FY 1998 Financing as Reflected in the FY 1998/FY 1999 Budget
with FY 1998 Financing as Shown in FY 1999 Budget Request
(In Thousands of Dollars)

	FY 1998 Financing Per <u>FY 1998 Budget</u>	FY 1998 Financing Per <u>FY 1999 Budget</u>	<u>Increase(+)</u> <u>Decrease(-)</u>
Program Requirements (Total)	346,797	391,578	+44,781
Program Requirements (Direct)	(336,797)	(381,578)	(+44,781)
Program Requirements (Reimb)	(10,000)	(10,000)	(0)
Less:			
Anticipated Reimbursements	10,000	10,000	(0)

Explanation of Changes in Financing

The +\$44.8 million change in program requirements is the result of Congressional increases (+\$62.8 million), reprogramming of JDAM funds to OPN (-9.0 million), and Congressional undistributed reductions: Section 8041 Contract Advisory and Assistance Services (-\$0.3 million); Section 8043 1.5 percent General Reduction (-\$6.0 million); Economic Assumptions (-\$2.0 million); and Section 8106 Warranty Savings (-\$0.7 million).

Comparison of FY 1997 Program Requirements as Reflected
in the FY 1998/FY1999 Budget with FY 1997 Program
Requirements as Shown in FY 1999 Budget Request
(In Thousands of Dollars)

	FY 1997 Total Program Requirements <u>Per FY 1998 Budget</u>	FY 1997 Total Program Requirements <u>Per FY 1999 Budget</u>	Increase (+) or Decrease (-)
BA 1: Navy Ammunition	151,489	144,495	-6,994
BA 2: Marine Corps Ammunition	132,140	132,141	+1
 Subtotal Direct Program	 283,629	 276,636	 -6,993
 Reimbursable	 10,000	 10,000	 0
 Total Fiscal Year	 293,629	 286,636	 -6,993

BA 1: Changes reflect above threshold reprogrammings: (-\$3.293 million) transfer to partially offset MPN shortfall; and (-\$3.7 million) OMNIBUS reprogramming to address higher priority emergent requirements.

BA 2: Changes reflect minor below threshold reprogrammings and rounding (+\$0.001 million).

Comparison of FY 1997 Financing as Reflected in the FY 1998/FY 1999 Budget
with FY 1997 Financing as Shown in FY 1999 Budget Request
(In Thousands of Dollars)

	FY 1997 Financing Per <u>FY 1997 Budget</u>	FY 1997 Financing Per <u>FY 1998 Budget</u>	Increase (+) Decrease (-)
Program Requirements (Total)	293,629	286,636	-6,993
Program Requirements (Direct)	(283,629)	(276,636)	(-6,993)
Program Requirements (Reimb)	(10,000)	(10,000)	(0)
Less:			
Anticipated Reimbursements	10,000	10,000	(0)

Explanation of Changes in Financing

Direct Program: Changes reflect above threshold reprogrammings (-\$6.993 million).

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET
P-40

DATE:

FEBRUARY 1998

APPROPRIATION/BUDGET ACTIVITY

PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS

P-1 ITEM NOMENCLATURE

General Purpose Bombs (Y1Q2)

Program Element for Code B Items:

B.A.1 - Navy Ammunition

Other Related Program Elements

	Prior Years *	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	To Complete	Total
QUANTITY													
COST (In Millions)	\$55.1		\$41.1	\$25.1	\$12.5	\$22.9	\$26.0	\$25.3	\$22.8	\$23.3	Cont	Cont	Cont

GBU-24/BLU-109: Operation Desert Storm revealed an urgent USN/USMC requirement for a 2000lb moderate to hard target penetrator weapon. Based upon Operational Requirements submitted by the fleet CINC's, a product improvement program was initiated to provide the USAF GBU-24/BLU-109 to the Fleet. The USN version consists of a 2000lb class BLU-109 warhead filled with approximately 535lbs of PBXN-109, a WGU-39 guidance and control unit, an FMU-143E/B tail fuse (with a less sensitive PBXN-7 booster and lead), FZU-32 arming unit, ADG-770 adapter group, and BSU-84 AFG. The FMU-143E/B fuse and BLU-109 warhead transitioned to the Single Manager for Conventional Ammunition in FY 95.

FY 98/99 PIP is used to continue investigation of hardware coating materials necessary to meet the Environmental Protection Agency's more stringent requirements.

In FY 99, MK 84 (2000lb) PBXN-109's, LGB Air Foils and M72 Cables will be procured to replace Non-combat expenditures, maintain war reserves, and support both live and inert 500 lb training.

PES/ILS: The FY 98/99 production engineering support (PES) and integrated logistics support (ILS) are continuing efforts in support of the procurement of GP bombs and ancillary components. These efforts include providing recommendations and assisting in rapid resolution of maintenance procedure discrepancies to achieve optimum asset readiness. Also included are audits, pre-award surveys, post award surveys, post award conferences, First Article Testing, and other testing required to overcome any technical problems which may arise. These funds are provided in parallel with the FY 98 and FY 99 end item buys.

	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>	<u>02</u>	<u>03</u>
Navy Reserves	.1	.1	.1	.1	.1	.1	.1	.1

UNCLASSIFIED

CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System									DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD General Purpose Bombs (Y1Q2)											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																
			Prior Years *				FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	
Q2170	GBU-24/BLU-109	A					502	65470.11	32,866			0			0			0	
Q2010	BSU-33 Conical Fin (F782)	A					25,330	87.84	2,225			0			0			0	
Q2030	MK-83 Conical Fins (F642)	A							0	33,235	326.04	10,836			0			0	
Q2180	LGB AIR FOILS (MXU-651/B)	A							0			0			0	428	6221.96	2,663	
Q2180	LGB AIR FOILS (MXU-667/B)	A							0	402	6467.66	2,600			0	1,509	5821.74	8,785	
Q2180	LGB (Skipper Conversion)	A							0	2300	2307.83	5,308			0			0	
Q2TBD	MK 84 (2000# Bomb) PBXN 109	A							0			0			0	841	8000.00	6,728	
Q2TBD	DSU-33 Proximity Fuze	A							0			0	4,778	1799.02	8,597			0	
Q2890	M72 Cables	A							0	12,750	28.14	360	8,000	32.41	259	8,000	30.56	245	
Q2800	ILS								707			359			603			588	
	ILS (GP Bombs)								(376)			(188)			(303)			(388)	
	ILS (GBU-24)								(331)			(171)			(300)			(200)	
Q2830	PES/NAVY								3,665			3,718			2,132			2,991	
	PES (GP Bombs)								(2018)			(2752)			(1053)			(1810)	
	PES (GBU-24)								(1647)			(966)			(1079)			(1181)	
Q2831	PES/ARMY								0			0			15			254	
Q2850	PIP								1,570			1,375			651			100	
Q2892	Non Standard Items								0			100			0			100	
Q2893	Renovation Components								0			100			0			200	
Q2894	Gaging								112			376			250			250	
Q2899	Initial Training								0			0			0			0	
*FY 95 only. Prior to FY 95, Program was budgeted under WPN.																			
TOTAL			\$55,106						41,145			25,132			12,507			22,904	

DD FORM 2446, JUN 86

P-1 SHOPPING LIST
ITEM NO. 1

PAGE NO. 2

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE General Purpose Bombs				SUBHEAD Y1Q2	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
GBU-24 COMPONENTS										
Q2170 <u>BLU-109</u> <u>Bomb Bodies</u> FY 95*	638	12,688.93	Rock Island, IL	Dec 94	C/FP	NATIONAL FORGE CORP. (IRVINE, PA)	Mar-95	Nov-97	YES	
FY 96**	502	15,280.0	Rock Island, IL	Dec 94	C/FP	NATIONAL FORGE CORP.	Feb-97	Dec 97	YES	
Q2170 <u>BSU-84 AFG</u> FY 95	638	8,814.19	Hill AFB	Dec 94	SS/FP	TEXAS INSTRUMENTS	Sep-95	Jun-98	YES	
FY 96	502	8,866.87	Hill AFB	Apr 96	SS/FPoption	TEXAS INSTRUMENTS	Jun-96	Oct-98	YES	
Q2170 <u>WGU-39/B G&C UNIT</u>										
FY 95	638	41,839.39	Hill AFB	Dec 94	SS/FP	TEXAS INSTRUMENTS	Sep-95	Jun-98	YES	
FY 96	502	42,089.46	Hill AFB	Apr 96	SS/FPoption	TEXAS INSTRUMENTS	Jun-96	Oct-98	YES	
Q2170 <u>FMU-143 E/B FUZE(F849)</u>										
FY 95***	638	2,188.30	Rock Island, IL	Dec 94	SS/FP	DAYRON, INC	Sep-95	Oct-97	YES	
FY 96***	502	2,325.12	Rock Island, IL	Dec 95	SS/FP	DAYRON, INC	Aug 96	Dec 97	YES	
D. REMARKS										
*Unit cost does not include LAP (load-assemble-pack) dollars **Option on an existing contract. ***Need to requalify vendor for bellows motor										

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					General Purpose Bombs				Y1Q2	
B.A.1 - Navy Ammunition										
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF No WHEN AVAILABLE
Q2010 <u>BSU-33 (F782)</u>										
FY95*	41,700	87.84	Rock Island, IL	May-96	C/FP	MTD	Aug 96	Mar-97	YES	
FY96*	25,330	87.84	Rock Island, IL	May-96	C/FP	MTD	Aug 96	Mar-97	YES	
Q2030 <u>MK-83 Conical Fins</u>										
FY97	33,235	326.04	Rock Island, IL	Feb-97	C/FP	MTD	Oct-97	Nov-98	YES	
Q2TBD <u>MK 84 (2000LB)</u>										
FY99	TP 841	8,000.00	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 99	Jun-00	YES	
Q2180 <u>LGB AFG(MXU-667/B/MXU-651B)</u>										
FY95 (MXU-651/B)	600	5,301.67	HILL AFB	Jun-96	SS/FP	TEXAS INSTRUMENT	Aug 96	May-97	YES	
FY97(MXU-667/B)	402	6,467.66	Hill AFB	May-97	SS/FP	TEXAS INSTRUMENT	Jul-97	Apr 98	YES	
FY97(SKIPPER CONV.)	2,300	2,307.83	Crane, IN	May-97	SS/FP	TEXAS INSTRUMENT	Jul-97	Sep-97	YES	
FY99(MXU-667/B)	1,509	5,821.74	Hill AFB	TBD	SS/FP	TEXAS INSTRUMENT	Jul-99	Apr 00	YES	
FY99(MXU-651/B)	428	6,221.96	Hill AFB	TBD	SS/FP	TEXAS INSTRUMENT	Jul-99	Apr 00	YES	
Q2190 <u>DSU-33</u>										
FY 98	4,778	1,799.02	Eglin AFB	TBD	C/FP	UNKNOWN	Jun-98	Dec 98	YES	
Q2890 <u>M 72 Cables</u>										
FY97	12,750	28.14	Rock Island, IL	Oct-96	C/FP	MID SOUTH	Mar-97	Sep-97	YES	
FY98	8,000	32.41	Rock Island, IL	TBD	C/FP	UNKNOWN	Jan 98	Feb-99	YES	
FY99	8,000	30.56	Rock Island, IL	TBD	C/FP	UNKNOWN	Jan 99	Feb-00	YES	
D. REMARKS										
*FY 95/96 Combined procurement										
**IMCO, Garland, Texas bomb bodies manufacturer, LAP at McAlester, OK.										

Exhibit P-21 Production Schedule

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE February 1998				
APPROPRIATION/BUDGET ACTIVITY						Weapon System		P-1 ITEM NOMENCLATURE		
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								General Purpose Bombs (Y1Q2)		
		Production Rate			Procurement Leadtimes					
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
BSU-33	Morris Tool & Die	3000	5000	10000		6	14		20	Thousands
MK-83 Conical Fins	Unknown	7000	9000	15000		6	11		17	Thousands
LGB AFG	Texas Instruments	88	220	390		9	9		18	Each
MK 84 (2000LB) TP	Unknown	1200	2400	4800		6	14		20	Thousands

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999												B A L	
						1997			CALENDAR YEAR 1998									CALENDAR YEAR 1999													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
BSU-33 (F782)		N																													
MTD	95		41.7	0	41.7						5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.3												0.0	
MTD	96		25.3	0	25.3						3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.6											0.0		
Mk 83 Conical Fins		N																													
UNKNOWN	97		33.2	0	33.2	A													2.8	2.8		2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.4
MK 84 (2000LB) TP		N																													
UNKNOWN	99		841	0	841																		A						841		
LGB AFG		N																													
Texas Instruments(MXU-651)	94		151	70	81	14	14	14	14	14	11																		0		
Texas Instruments(MXU-651)	95		600	250	350	50	50	50	50	75	75																		0		
Texas Instruments(MXU-667)	97		402	0	402							34	34	34	34	34	34	34	34	34	34	28							0		
Texas Instruments(Skipper Conv)	97		2300	191	2109	191	191	191	191	191	191	191	191	191	199														0		
Texas Instruments(MXU-667)	99		1509	0	1509																					A			1,509		
Texas Instruments(MXU-651)	99		428	0	428																				A				428		

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L
						1999			CALENDAR YEAR 2000									CALENDAR YEAR 2001												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Mk 83 Conical Fin																														
UNKNOWN	97		33.2	30.8	2.4	2.4																								
MK 84 (2000LB) TP																														
UNKNOWN	99		841	0	841									70	70	70	70	70	70	70	70	70	70	70	70	71			0	
LGB AFG																														
Texas Instruments(MXU-667)	99		1509	0	1,509							126	126	126	126	126	126	126	126	126	126	123							0	
Texas Instruments(MXU-651)	99		428	0	428							35	35	35	35	35	35	35	35	35	35	43							0	

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21											DATE February 1998															
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS											Weapon System					P-1 ITEM NOMENCLATURE General Purpose Bombs (Y1Q2)										
						Production Rate			Procurement Leadtimes																	
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1			ALT After Oct 1			Initial Mfg PLT		Reorder Mfg PLT		Total	Unit of Measure						
DSU-33	Motorola					4000	4000	5500				8			6				14	Thousands						
M72 Cables	Mid South					UNK	UNK	UNK				3			13				16	Thousands						

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999												B A L				
						1997			CALENDAR YEAR 1998									CALENDAR YEAR 1999																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
						DSU-33 UNKNOWN	98	N	4.8	0	4.8										A										0.4	0.4	0.4	0.4
M72 Cables UNKNOWN	97	N	12.8	9.4	3.4	1.1	1.1	1.2																										0.0
UNKNOWN	98		8.0	0	8.0				A																	4.0	4.0						0.0	
UNKNOWN	99		8.0	0	8.0																				A								8.0	

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L			
						1999			CALENDAR YEAR 2000									CALENDAR YEAR 2001															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
						DSU-33 UNKNOWN	98		4.8	4.0	0.8	0.4	0.4																				
M72 Cables UNKNOWN	99		8.0	0	8.0					4.0	4.0																						0.0

Remarks:

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40												DATE: February 98	
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/B.A. 1. Ammunition								P-1 ITEM NOMENCLATURE JOINT DIRECT ATTACK MUNITION					
Program Element for Code B Items: 0204162N								Other Related Program Elements					
	Prior Years	ID Code	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Program
QUANTITY	N/A	B	N/A	N/A	N/A	668	898	785	641	809	2,622	19,073	25,496
COST (\$M)						\$28.6	\$41.4	\$36.0	\$30.1	\$30.6	\$66.0	\$480.2	\$712.9
Initial Spares (\$M)						\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total (\$M)	\$0.0		\$0.0	\$0.0	\$0.0	\$28.6	\$41.4	\$36.0	\$30.1	\$30.6	\$66.0	\$480.2	\$712.9
Unit Cost (\$M)						0.043	0.046	0.046	0.047	0.038	0.025	0.025	0.028
<p>MISSION AND DESCRIPTION Operation Desert Storm confirmed the need for a more accurate weapon delivery capability in adverse weather conditions and from medium/high altitudes. Failure to satisfy this requirement will allow the enemy to continue to take advantage of the sanctuary of weather and/or prevent US air power from prosecuting a conflict on its terms. JDAM is an Air Force and Navy munitions program to correct these shortfalls, with the Air Force as the executive service. JDAM will upgrade the existing inventory of general purpose bombs (MK 84, BLU-109/B, and MK 83) by integrating them with a guidance kit consisting of a global positioning system aided inertial navigation system (GPS/INS). JDAM will provide an accurate (13 meters) adverse weather capability. JDAM will initially be integrated with the B-52, B-2, B-1B and F/A-18C/D aircraft with follow-on integration on the F-16, F-15E, F-22 and other aircraft. The total production buy for JDAM is 87,496 units (62,000 for AF and 25,496 for Navy). No requirement for initial spares because of 20 year warranty.</p>													

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System								DATE: February 98			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/B.A. 1. Ammunition										ID Code B		P-1 ITEM NOMENCLATURE/SUBHEAD JOINT DIRECT ATTACK MUNITION									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																		
			Prior Years	FY 1995			FY 1996			FY 1997			FY 1998			FY 1999					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
	AIR VEHICLE JOINT PROGRAMMABLE FUZE (JPF) WARHEAD (1) ENGINEERING CHANGE ORDERS (ECO) TOTAL RECURRING FLYAWAY PRODUCTION TECH SUPPORT CONTRACTOR INCENTIVE PRODUCTION TEST DATA BLU-109 CABLES TOTAL NON-RECURRING TOTAL WEAPON FLYAWAY LOAD/BUILDUP TRAINERS TEST EQUIPMENT (2) ILS TRAINING DATA (TECHNICAL) TOTAL FLEET SUPPORT TOTAL WEAPON SYSTEM INITIAL SPARES TOTAL PROCUREMENT	B B	N/A										668 668 0 668 668 668 668 668 0 668	18,483 3,912 0 516 22,910 38,282 42,829 0 42,829	12,346 2,613 0 345 15,304 7,855 360 897 123 1,034 10,269 25,573 134 1,447 883 541 32 3,037 28,610 0 28,610	898 898 592 898 898 898 898 0 898	19,152 3,249 18,642 538 35,230 42,368 46,061 0 46,061	17,199 2,918 11,036 483 31,636 5,152 168 921 170 0 6,411 38,047 0 1,801 996 455 64 3,316 41,363 0 41,363			
CONTROLS			0			0			0			0			28,610			41,363			

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

ITEM NO. 2

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CLASSIFICATION:

NOTE 1. QUANTITY AND COSTS ARE FOR BLU-109 WARHEADS ONLY. MK-84 AND MK-83 WARHEADS ARE IN EXISTING INVENTORY.

NOTE 2. TEST EQUIPMENT INCLUDES THE COST FOR THE COMMON MUNITIONS BIT REPROGRAMMABLE EQUIPMENT (CMBRE)

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CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 98			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/B.A.1					C. P-1 ITEM NOMENCLATURE JOINT DIRECT ATTACK MUNITION				SUBHEAD Y1JD	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY98 JDAM	668	22,910	USAF ASC/YU EGLIN AFB, FL		FFP Option	McDonnell Douglas Aero St. Louis, MO	May 98	May 99	N/A ⁽¹⁾	N/A
FY99 JDAM	898	35,230	USAF ASC/YU EGLIN AFB, FL		TBD	McDonnell Douglas Aero St. Louis, MO	May 99	May 00	N/A ⁽¹⁾	N/A
D. REMARKS										
(1). SPECIFICATIONS HAVE BEEN WAIVED DUE TO JDAM's STATUS AS AN ACQUISITION REFORM PILOT PROGRAM.										

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST
 311 / 244 ITEM NO 2 PAGE 4 Exhibit P-21 Production Schedule

DD Form 2445, JUL 87	Previous editions are obsolete	P-1 SHOPPING LIST	
311 / 244		ITEM NO 2 PAGE 5	Exhibit P-21 Production Schedule

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE 2.75 INCH ROCKETS (Y1Q3)					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY													
COST (In Millions)	14.3*	A	\$14.3	\$8.9	\$15.5	\$16.1	\$16.4	\$16.9	\$17.2	\$17.6	Continuing	Continuing	
<p>The current 2.75 Inch Rocket System is used on both rotary and fixed wing aircraft. The system consists of launchers (LAU-68 seven-tube and LAU-61 19-tube), rocket motor (MK 66 Mod 2/4) and a family of warheads (high explosive, smoke, visible illumination, infrared illumination and practice). These items are procured through the Army Single Manager for Conventional Ammunition (SMCA) using Conventional Ammunition Working Capital Fund (CAWCF) standard prices.</p> <p>Product improvements address deficiencies in the safety, reliability and producibility of the 2.75 Inch Rocket System. Specific projects include continuation of insensitive munitions rocket motor compliance efforts.</p> <p>Funds provided in the FY 1999 budget request provide for procurement of MK 66 rocket motors to keep pace with training requirements, and continued procurements of M278 warheads. Initial procurement of MK 67 warheads is planned in FY 1999.</p> <p>*Reflects only FY 95 funding. Prior to FY 95, these programs were funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.</p>													
			<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>			
NAVY RESERVE			\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1			

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CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System						DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS										ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD 2.75 INCH ROCKETS (Y1Q3)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																
			Prior Years*	FY 1996			FY 1997			FY 1998			FY 1999						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost				
Q3010	LAU-68 D/A Launcher (H122)	A	-	-	-	-	-	-	-	433	3138.56	1,359	-	-	-				
Q3030	WTU-1/B Inert Warhead (H663)	A	-	11,988	25.05	300	-	-	-	-	-	-	-	-	-				
Q3040	MK 66 Rocket Motor (HA03)	A	10,990	21,036	410.08	8,627	-	-	-	-	-	-	-	-	-				
Q3040	MK 66 Rocket Motor (HA07)	A	-	1,364	776.08	1,059	11,204	492.68	5,520	15,839	410.45	6,501	19,255	471.04	9,070				
Q3070	M278 IR Illum. Warhead (HA06)	A	-	2,000	764.54	1,529	2,144	764.54	1,639	4,991	709.89	3,543	2,977	998.90	2,974				
TBD	MK 67 Smoke Warhead (H893)	A	-	-	-	-	-	-	-	-	-	-	5,000	96.20	481				
Q3800	Integrated Logistics Support		144			150			133			140			150				
Q3830	Production Engineering Support(PES)		1,001			1,185			809			1,249			1,379				
Q3831	PES/ARMY		-			-			-			1,603			1,013				
Q3850	Product Improvement Program		1,751			1,256			726			900			900				
Q3892	Non-Standard Items		40			40			40			40			40				
Q3893	Renovation Components		60			60			55			60			60				
Q3894	Gaging		80			80			-			80			80				
Q3899	Initial Training Packages		190			-													
			*Reflects FY95 only, these programs were previously funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.																
			14,256			14,286			8,922			15,475			16,147				

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					C. P-1 ITEM NOMENCLATURE 2.75 INCH ROCKETS				SUBHEAD Y1Q3	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
Q3010 LAU-68 D/A LAUNCHER (H122) FY 98	433	3138.56	ARMY IOC (Rock Island, IL)	N/A	C/FP	UNKNOWN	May-98	Jul-99	YES	
Q3030 WTU-1/B (H663) FY 96	11988	25.05	ARMY IOC (Rock Island, IL)	N/A	C/FP	GENERAL DYNAMICS (Burlington, VT)	Dec-96	Nov-97	YES	
Q3040 MK 66 MOTORS FY 95 (HA03)	26500	414.72	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Nov-95	Oct-96	YES	
FY 96 (HA03)	21036	410.08	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Dec-96	Dec-98	YES	
FY 96 (HA07)	1364	776.08	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Dec-96	Oct-97	YES	
FY 97 (HA07)	11204	492.68	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	May-97	Jul-99	YES	
FY 98 (HA07)	15839	410.45	ARMY IOC	N/A	C/FP	UNKNOWN	May-98	Jul-99	YES	
FY 99 (HA07)	19255	471.04	ARMY IOC	N/A	C/FP	UNKNOWN	May-99	Jul-00	YES	
Q3070 M278 WARHEAD (HA06) FY 96	2000	764.54	ARMY IOC (Rock Island, IL)	N/A	C/FP	THIOKOL (Odgen, UT)	Dec-96	Dec-97	YES	
FY 97	2144	764.54	ARMY IOC	N/A	C/FP	UNKNOWN	May-97	Oct-98	YES	
FY 98	4991	709.89	ARMY IOC	N/A	C/FP	UNKNOWN	May-98	Jul-99	YES	
FY 99	2977	998.90	ARMY IOC	N/A	C/FP	UNKNOWN	May-99	Jul-00	YES	
Q3TBD MK 67 WARHEAD (H893) FY 99	5000	96.20	ARMY IOC	N/A	C/FP	UNKNOWN	May-99	Jul-00	YES	
D. REMARKS										
Pricing is provided by the Army and incorporates other services' buys.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE February 1998														
APPROPRIATION/BUDGET ACTIVITY						Weapon System					P-1 ITEM NOMENCLATURE									
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS											2.75 INCH ROCKETS									
		Production Rate			Procurement Leadtimes															
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure										
WTU-1/B (H663)	GENERAL DYNAMICS	5	10	120		7	14		21	EA										
	BURLINGTON, VT																			
MK 66 RKT MTR (HA03)	LOCKHEED MARTIN	8	50	250		7	14		21	TH										
	BURLINGTON, VT																			
M278 WARHEAD (HA06)	THIOKOL	25	50	100		7	14		21	TH										
	ODGEN, UT																			

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999												B A L
						1997			CALENDAR YEAR 1998									CALENDAR YEAR 1999												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q3070-M278 WARHEAD (HA06)																														
THIOKOL	96	N	2.0	0.0	2.0			2.0																						
UNK	97	N	2.1	0.0	2.1													0.6	1.5											
UNK	98	N	5.0	0.0	5.0								A												0.3	0.3	0.3			
UNK	99	N	3.0	0.0	3.0																A						3.0			
TBD-MK67 WARHEAD (H893)																														
UNK	99	N	5.0	0.0	5.0																A						5.0			

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L
						1998			CALENDAR YEAR 2000									CALENDAR YEAR 2001												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q3070-M278 WARHEAD (HA06)																														
UNK	98	N	5.0	0.9	4.1	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4													0.0			
UNK	99	N	3.0	0.0	3.0										0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.0			
TBD-MK67 WARHEAD (H893)																														
UNK	99	N	5.0	0.0	5.0										0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0			

Remarks: Production rates are provided by the Army and include other services' buys.

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE MACHINE GUN AMMUNITION (Y1Q4)					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY													
COST (In Millions)	13.6*	A	\$11.2	\$5.2	\$9.4	\$8.8	\$9.3	\$10.5	\$10.9	\$11.2	Continuing	Continuing	
<p>This line funds procurement of 20MM and 25MM ammunition used with various aircraft gun systems. 20MM ammunition includes procurements of PGU-27/B (TP)(both bulk and linked cartridges). When employed in the bulk (linkless) condition these cartridges are used in the M61A1 gun systems of F-14 and F/A-18 aircraft. When linked with the MK14 link, these cartridges are used in the M197 gun system in the AH-1 aircraft and in the GPU-2A gun pod. All 20MM ammunition is procured by the Army's Single Manager for Conventional Ammunition (SMCA) using Conventional Ammunition Working Capital Fund (CAWCF) standard prices. 25MM funds are for the PGU-32 Semi-Armor Piercing High Explosive Incendiary (SAPHEI) war fighting cartridge for the GAU-12 gun system in the AV-8/B aircraft.</p> <p>Funds requested through FY 99 for the Product Improvement Program (PIP) are required to: (1) restructure incorporation of a radiation safe primer to modify the M61/M197 gun systems to accept percussion or electrically primed ammunition; (2) correct anomalies in PGU 20MM ammunition; (3) conduct feasibility determination for the design of an aluminum cartridge case; and (4) complete the PIP on PGU-33 including verification of the technical data package (TDP).</p> <p>*Reflects only FY 95 funding. Prior to FY 95, these programs were funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.</p>													
NAVY RESERVE			<u>FY96</u> \$0.4	<u>FY97</u> \$0.3	<u>FY98</u> \$0.3	<u>FY99</u> \$0.3	<u>FY00</u> \$0.3	<u>FY01</u> \$0.3	<u>FY02</u> \$0.3	<u>FY03</u> \$0.3			

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					C. P-1 ITEM NOMENCLATURE MACHINE GUN AMMUNITION				SUBHEAD Y1Q4	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q4010 20MM LINKLESS PGU-27/B (A678) FY96	1073966	5.80	ARMY IOC (Rock Island, IL)	N/A	C/FP	LAKE CITY AAP/ (Independence, MO) PRIMEX, Marion IL	Apr-96	Oct-96	YES	
FY99	950000	4.98	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
Q4030 20MM LINK,TP, PGU-27/B (A772/A450) FY96	25148	6.76	ARMY IOC	N/A	C/FP	LAKE CITY AAP (Independence, MO) PRIMEX, Marion IL	Apr-96	Oct-96	YES	
FY97 (A450)	399706	6.80	ARMY IOC	N/A	C/FP	PRIMEX, Marion IL	Jun-97	Feb-98	YES	
FY98 (A450)	227925	7.19	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-98	Apr-99	YES	
FY99 (A450)	126204	7.74	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
Q4050 20MM PGU-28/B (A677) FY96	132508	16.55	ARMY IOC (Rock Island, IL)	N/A	C/FP	LAKE CITY AAP/ (Independence, MO) PRIMEX, Marion IL	Apr-96	Feb-97	YES	
FY98	128839	12.83	ARMY IOC	N/A	C/FP		Jun-98	Apr-99	YES	
Q4150 25MM SAPHEI PGU-32 (A990) FY95	125019	13.47	NAWC CL (China Lake, CA)	Sep-95	C/FP	ALLIANT TECH (Hopkins, MN)	Dec-95	Feb-98	YES	
FY98	227325	15.70	NAVAIR	Jan-98	C/FP	UNKNOWN	Apr-98	Apr-99	YES	
FY99	58879	16.05	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Sep-99	YES	
D. REMARKS										
Pricing is provided by the Army and incorporates other services' buys.										

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST
 311 / 244 ITEM NO 4 PAGE 4 Exhibit P-21 Production Schedule

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST
 311 / 244 ITEM NO 4 PAGE 5 Exhibit P-21 Production Schedule

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: FEBRUARY 1998																							
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE Practice Bombs (Y1Q1)																							
Program Element for Code B Items: B.A.1 - Navy Ammunition								Other Related Program Elements																							
	Prior Years *	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	To Complete	Total																		
QUANTITY																															
COST (In Millions)	\$12.7		\$19.5	\$9.3	\$50.6	\$40.1	\$36.1	\$37.0	\$36.7	\$37.5	Cont	Cont	Cont																		
<p>Practice Bombs are a low cost alternative to expenditures of live bombs for training. The MK 76 simulates an unretarded MK 80 series bomb. It is a 25 lb. cast iron shape with a breach hole for a MK 4 or CXU-3 signal which provides a smoke signal or flash upon impact. The BDU-48 simulates retard bombs. It is a 10 lb. thin cased cylindrical bomb with a breach hole for a MK4 or CXU-3 Signal. The BDU-45 NTP and MK 83 Inert are full-sized Practice Bombs. They are MK 80 series bomb bodies filled with an inert material and have the same weight, size, center of gravity and ballistics as a live bomb. The BDU-45 uses a CXU-4 signal cartridge for spotting location and simulates a 500 lb G. P. Bomb. These items are procured through the Army Single Manager for Conventional Ammunition using Conventional Ammunition Working Capital Fund standard prices.</p> <p>The Laser Guided Training Round (LGTR) is procured directly by the Navy. This round enhances aircrew proficiency for more effective use of the PAVEWAY II Laser Guided Bomb (LGB) precision guided weapon which requires coordination between the aircrew and the laser designator. Development of delivery options and multi-aircraft tactics require extensive cost effective training. The Laser Guided Training Round (LGTR) is capable of replicating the kinematics of LGBs. It provides an increased basic training capability and greatly enhances follow-on advanced tactics development. The LGTR is suitable for launch from all Navy and Marine Corps aircraft used to deploy LGBs. LGTRs provide actual hardware for aircrew and tactics development at a greatly reduced cost while maintaining LGB stockpiles.</p> <p>Procurement of MK 83 Inert, MK 84 inert units and LGTRs are planned in FY 98 and FY 99, respectively.</p> <p>The FY 98/99 Production Engineering Support and Integrated Logistics Support are continuing annualized efforts associated with ongoing procurements of the Practice Bombs associated Signal Cartridge, BDU-45/B, MK 76 and LGTR. These efforts include maintenance of PDP (Procurement Data Packages), participation in post award conferences, first article and quality assurance testing, ECP reviews/comments/recommendations, technical manual updates, evaluations of engineering change proposals, and responses to fleet inquiries.</p> <table style="width: 100%; margin-top: 20px;"> <thead> <tr> <th></th> <th><u>96</u></th> <th><u>97</u></th> <th><u>98</u></th> <th><u>99</u></th> <th><u>00</u></th> <th><u>01</u></th> <th><u>02</u></th> <th><u>03</u></th> </tr> </thead> <tbody> <tr> <td>Navy Reserves</td> <td>1.2</td> <td>0.6</td> <td>3.3</td> <td>2.6</td> <td>2.6</td> <td>2.6</td> <td>2.6</td> <td>2.6</td> </tr> </tbody> </table>															<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>	<u>02</u>	<u>03</u>	Navy Reserves	1.2	0.6	3.3	2.6	2.6	2.6	2.6	2.6
	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>	<u>02</u>	<u>03</u>																							
Navy Reserves	1.2	0.6	3.3	2.6	2.6	2.6	2.6	2.6																							

P-1 SHOPPING LIST

CLASSIFICATION:

*FY 95 only. Prior to FY 95, Program was budgeted under WPN.

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WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System										DATE: February 1998	
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition										ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Practice Bombs (Y1Q1)										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																		
			Prior Years *					FY 1996			FY 1997			FY 1998			FY 1999				
			Total Cost	Units	Unit Cost		Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost		
Q1010	MK 76(E973)	A								0			0	200,184	20.37	4,078	273,757	19.28	5,278		
Q1040	BDU 45/B (F017)	A						11,298	813.24***	9,188	3,078	706.27	2,174	10,349	932.11	9,647	21,063	932.11	19,633		
Q1050	MK 89 Adapter	A								0			0			0			0		
Q1TBD	MK 84 Inert (MOD 7) NTP	A								0			0	3,859	2500.00	9,648			0		
Q1300	Laser Guided Training Round	A						1,889	3,354.16	6,336	815	5,600.00	4,564	2,569	5,600.00	14,386	1,369	4,954.00	6,782		
Q1TBD	MK 83 Inert (E511)	A								0			0	5433	1,464.72	7,958	1,440	2,258.82	3,253		
Q1800	ILS									627			436			400			400		
Q1830	PES									2,784			1,602			2,060			3,493		
Q1831	PES/ARMY									0			0			1,825			695		
Q1850	PIP									300			300			350			350		
Q1894	Gaging									245			225			250			250		
*Unit price for the FY 96 BDU-45/B procurement is the average of 2 contracts (8,142 @ \$854.48/3,156 units @ \$706.27)																					
*FY 95 only. Prior to FY 95, Program was budgeted under WPN.																					
TOTAL			12,592							19,480			9,301			50,602			40,134		

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE Practice Bombs				SUBHEAD Y1Q1	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
Q1010 <u>MK 76 (E973)</u>										
FY 98	200,184	20.37	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 98	Jun-99	YES	
FY 99	273,757	19.28	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 99	Jun-00	YES	
Q1040 <u>BDU-45/B (F017)</u>										
FY 96	11,298	813.24	Rock Island, IL	Aug 95	SS/FP	MCALISTER, AAP (MCALISTER, OK)	Sep-96	Jun-98	YES	
FY 97	3,078	706.27	Rock Island, IL	TBD	SS/FP	MCALISTER, AAP	Apr 97	Oct-98	YES	
FY 98	10,349	932.11	Rock Island, IL	TBD	SS/FP	MCALISTER, AAP	Apr-98	Jun-99	YES	
FY 99	21,063	932.11	Rock Island, IL	TBD	SS/FP	MCALISTER, APP	Apr 99	Jun-00	YES	
Q1300 <u>Laser Guided Training Round</u>										
FY 95	1,800	3,650.06	NAVAIR	Jan 97	SS/FP	LORAL	May-97	Jun-97	YES	
FY 96	1,889	3,354.16	NAVAIR	Jan 97	SS/FP	LOCKHEED-MARTIN	May-97	Jun-97	YES	
FY 97	815	5,600.00	NAVAIR	TBD	TBD	UNKNOWN	Jun-98	Feb-99	YES	
FY 98	2,569	5,600.00	NAVAIR	TBD	TBD	UNKNOWN	Jun-98	Feb-99	YES	
FY 99	1,369	4,954.00	NAVAIR	TBD	C/FP	UNKNOWN	Apr 99	Jan 00	YES	
Q1TBD <u>Mk 83 Inert</u>										
FY 98	5,433	1,464.72	Rock Island, IL	TBD	SS/FP	MCALISTER, AAP	Apr 98	Jun-99	YES	
FY 99	1,440	2,258.82	Rock Island, IL	TBD	SS/FP	MCALISTER, AAP (MCALISTER, OK)	Apr 99	Jun-00	YES	
Q1TBD <u>MK 84 INERT NTP</u>										
FY 98	3859	2,500.00	Rock Island, IL	TBD	SS/FP	MCALISTER, AAP	Jun 98	Aug 99	YES	
D. REMARKS										
1. For the FY 96 BDU-45 procurement: (a) IMCO, Garland, Texas bomb bodies manufacturer, LAP (Load/Assemble/Pack) at McAlester. (b) Unit price for the FY96 procurement is the average of 2 contracts (8142 units @ \$854.48/3156 units @ \$706.27).										
2. For the LGTR procurement: (a) FY95/96 is a combined buy to LORAL. Total cost includes \$3,241K to buy steel containers. (b) Higher unit cost in FY 98/99 reflect introduction of the LGTR II.										

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CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: FEBRUARY 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE Cartridges and Cartridge Actuated Devices (CARTS/CADS) (Y1Q8)					
Program Element for Code B Items: B.A.1 - Navy Ammunition								Other Related Program Elements					
	Prior Years *	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		To Complete	Total
QUANTITY													
COST (In Millions)	\$15.8		\$17.5	\$20.6	\$23.8	\$26.0	\$27.1	\$27.6	\$28.1	\$28.8		Cont	Cont
<p><u>Escape System/Life Support Devices</u> These items, such as safety/arming devices, sequence controls, shielded mild detonating cord, gas generators, initiators, thermal batteries, etc, are used in aircraft emergency escape systems. The total number of devices installed varies with the type of aircraft, e.g., F-14/A(273), F/A-18(136), S-3(105), EA-6B(45), T-45(76), T/AV-8(90) and AH-1(27). These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet the standard. Life support devices such as the Sea Water Activated Release System and the FLU-8B/P automatic life vest inflator are essential to crew survival after ejection. The FY 99 budget request also includes funding for the procurement of NACES items, JAU-52/A's and BBU-57/A Cutters.</p> <p><u>Weapons/Stores Release Cartridges</u> These items are used to eject weapons/stores from aircraft. The JAU-22 and other miscellaneous impulse cartridges are used to eject sonobuoys from aircraft. The FY 99 budget request includes funding for the procurement of CCU-107 Impulse Cartridges and JAU-22/B Initiator Cartridges.</p> <p><u>Integrated Logistics Support</u> Integrated Logistics Support (ILS) provides for ILS planning, maintenance standardization, supply support, technical data programs, and generation and implementation of a traceability system.</p> <p><u>Production Engineering Support</u> Production Engineering Support (PES) efforts include: review of procurement requests, waivers and deviations; technical support of Lot Acceptance Testing/First Article Testing; and conformance with new EPA regulations.</p> <p><u>Product Improvement Programs</u> Product Improvement Programs (PIP) are conducted as part of a continuing effort to correct deficiencies in the areas of safety, reliability, maintainability, and producibility and to increase the service lives of CARTS and CADS.</p> <p>*Reflects only FY 95 funding. Prior to FY 95, this program was funded in the Other Procurement, Navy appropriation.</p>													

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WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System						DATE: FEBRUARY 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition										ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Cartridges and Cartridge Actuated Devices								
COST CODE	ELEMENT OF COST	ID Code		TOTAL COST IN THOUSANDS OF DOLLARS															
			Prior Years *				FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	
	STORES RELEASE																		
Q8TBD	CCU-107 Imp Ctg (MT95)	A							0			0	180,000	4.59	827	180,000	4.69	844	
Q8090	JAU-22/B Init. Ctg. (MF64)	A							0	233,025	13.41	3,126	190,000	13.71	2,605	160,000	14.00	2,240	
	SAFETY																		
Q8TBD	IBARS Gas Generator (IBA1)	A							0			0			0			0	
Q8060	Thermal Battery (CWDR)	A					517	3,106.38	1,606	95	2,871.00	273			0	244	3,405.46	831	
Q8070	PCU-48/B Parachute	A							0			0			0			0	
Q8080	BBU-57/A Cutter (SR95)	A					110	7,817.00	860	72	7,853.51	565			0	46	8,188.85	377	
Q8120	JAU-52 (MJ91)	A					340	3,179.00	1,081	183	2,759.56	505	121	3,276.39	396	188	3,346.02	629	
Q8300	Navy Aircrew Common Ejection Seat	A							673			627			1,251			1,601	
Q8600	Misc Devices Under \$500K								7,186			9,011			9,600			10,249	
Q8800	Integrated Logistics Support								1,207			1,521			1,768			1,795	
Q8830	Production Engineering Support								2,390			2,315			2,498			2,398	
Q8840	Quality Assurance								373			382			328			344	
Q8850	Product Improvement Program								1,342			1,373			3,550			3,640	
Q8860	Acceptance Testing								816			878			987			1,034	
TOTAL			\$15,804						17,534			20,576			23,810			25,982	

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P-1 SHOPPING LIST
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*FY 95 only. Prior to FY 95, Program was under OPN funding.

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE Cartridges and Cartridge Actuated Devices				SUBHEAD Y1Q8	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
<u>STORES RELEASE</u>										
Q8TBD CCU-107 Imp Ctg (MT95)										
FY 98	180,000	4.59	NAVICP	TBD	C/FP	UNKNOWN	Apr 98	Apr 99	YES	
FY 99	180,000	4.69	NAVICP	TBD	C/FP	UNKNOWN	Apr-99	Apr 00	YES	
Q8TBD JAU-22 Init Ctg (MF64)										
FY 97	233,025	13.41	NAVICP	8/15/96	C/FP	ACTION/AMTEC CORP (JONESVILLE,WI /ATALIN,PA)	Apr-97	Apr 98	YES	
FY 98	190,000	13.71	NAVICP	TBD	C/FP	UNKNOWN	Apr-98	Apr 99	YES	
FY 99	160,000	14.00	NAVICP	TBD	C/FP	UNKNOWN	Apr-99	Apr 00	YES	
<u>SAFETY</u>										
Q8060 Thermal Battery (CWDR)										
FY 96	517	3106.38	NAVAIR BUY	TBD	SS/FP	MSA	Apr-96	Apr 97	YES	
FY 97	95	2871.00*	NAVAIR BUY	TBD	SS/FP	MSA	Apr-97	Apr 98	YES	
FY 99	244	3405.46	NAVAIR BUY	TBD	SS/FP	MSA	Apr-99	Apr-00	YES	
Q8TBD BBU-57/A Cutter (SR95)										
FY 96	110	7817.00	NAVICP	12/29/95	C/FP	NORTHROP (HAWTHORNE, CA.)	Aug-96	Sept-97	YES	
FY 97	72	7853.51	NAVICP	OPTION EXCERCISED	C/FP	NORTHROP	Jan 97	Apr-98	YES	
FY 99	46	8188.85	NAVICP	TBD	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
Q8120 JAU-52/B Init. Ctg (MJ91)										
FY 96	340	3179.00	NAVICP	OPTION EXCERCISED	SS/FP	ROCKET RESEARCH	Aug-96	Mar-98	YES	
FY 97	183	2759.56	NAVICP	12/26/96	SS/FP	ROCKET RESEARCH	Jun-97	Apr 99	YES	
FY 98	121	3276.39	NAVICP	TBD	SS/FP	ROCKET RESEARCH	Apr-98	Apr 99	YES	
FY 99	188	3346.02	NAVICP	TBD	SS/FP	ROCKET RESEARCH	Apr-99	Apr 00	YES	
D. REMARKS										
* Due to VECP non-recurring cost FY96 unit cost was higher. Unit prices are negotiated.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-2'																DATE		FEBRUARY 1998																			
APPROPRIATION/BUDGET ACTIVITY											Weapon System					P-1 ITEM NOMENCLATURE																					
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORP:																Cartridges and Cartridge Actuated Devices (CARTS/CADS)																					
						Production Rate					Procurement Leadtimes:																										
Item		Manufacturer's Name and Location				MSR	1-8-5		MAX		ALT Prior to Oct 1			ALT After Oct 1			Initial Mfg PLT			Reorder Mfg PLT			Total			Unit of Measure											
JAU-52/B Init. Ctg (MJ91)		Rocket Research				UNK	150		350					6			12						18			Each											
BBU-57/A Cutter (DF03)		NORTHROP				UNK	UNK		UNK					6			12						18			Each											
Thermal Battery (CWDR)		MSA				UNK	UNK		UNK					6			12						18			Each											
CCU-107 Imp. Ctg. (MT 95)		UNKNOWN				UNK	UNK		UNK					6			12						18			Thousands											
JAU-22/B Init Ctg (MF64)		ACTION/AMTEC CORP				UNK	UNK		UNK					6			12						18			Thousands											
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998															FISCAL YEAR 1999															B A L
							CALENDAR YEAR 1998															CALENDAR YEAR 1999															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
							T	V	E	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	U	G	P						
CCU-107 Imp. Ctg. (MT 95)			N																																		
Unknown		98		180	0	180								A																			90.0				
Unknown		99		180	0	180																											180.0				
JAU-22/B Init Ctg (MF64)			N																																		
Action/AMTEC Corp		97		233.0	0	233.0								18.6	18.6	18.6	18.6	18.6	18.6	19.0	19.0	19.0	19.0	19.0	26.4								0.0				
Unknown		98		190	0	190								A																			94.0				
Unknown		99		160	0	160																											160.0				
Thermal Battery (CWDR)			N																																		
MSA		96		517	235	282	47	47	47	47	47	47																					0.0				
MSA		97		95	0	95								8	8	8	8	8	8	8	8	8	8	8	7								0.0				
MSA		99		244	0	244																											244.0				
BBU-57/A Cutter (DF03)			N																																		
Northrop		96		110	16	94	16	16	16	16	16	14																					0.0				
Northrop		97		72	0	72								6	6	6	6	6	6	6	6	6	6	6	6								0.0				
Unknown		99		46	0	46																											46.0				
JAU-52 (MJ91)			N																																		
Rocket Research		96		340	0	340																											0.0				
Rocket Research		97		183	0	183								49.0	49.0	49.0	49.0	49.0	46.0														93.0				
Rocket Research		98		121	0	121								A																			61.0				
Rocket Research		99		188	0	188																											188.0				
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000															FISCAL YEAR 2001															B A L
							CALENDAR YEAR 2000															CALENDAR YEAR 2001															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
							T	V	E	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	U	G	P						
CCU-107 Imp. Ctg. (MT 95)			N																																		
Unknown		98		180	90	90	15	15	15	15	15	15																					0.0				
Unknown		99		180	0	180								15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0.0					
JAU-22/B Init Ctg (MF64)			N																																		
Unknown		98		190.0	96.0	94.0	16.0	16.0	16.0	16.0	16.0	14.0																					0.0				
Unknown		99		160.0	0	160.0								13	13	13	13	13	13	13	13	13	13	17								0.0					
Thermal Battery (CWDR)			N																																		
MSA		99		244	0	244								20	20	20	20	20	20	20	20	20	20	24								0.0					
BBU-57/A Cutter (DF03)			N																																		
Unknown		99		46	0	46								4	4	4	4	4	4	4	4	4	4	2									0.0				
JAU-52 (MJ91)			N																																		
Rocket Research		97		183	90	93	15	15	15	15	15	18																					0.0				
Rocket Research		98		121	60	61	10	10	10	10	10	11																					0.0				
Rocket Research		99		188	0	188								16	16	16	16	16	16	16	16	16	12									0.0					
Remarks:																																					

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: FEBRUARY 1998		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE Aircraft Escape Rockets/Catapults (Y1Q9)				
Program Element for Code B Items: B.A.1 - Navy Ammunition								Other Related Program Elements				
	Prior Years *	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY												
COST (In Millions)	\$8.9		\$10.3	\$8.0	\$8.3	\$10.4	\$10.6	\$10.8	\$11.0	\$11.3	Cont	Cont
<p>This program provides funding for rocket motors, rocket catapults and catapults used to eject crewmen from disabled aircraft. The program is structured to meet replacement requirements that are based on aircraft inventories and escape rocket/catapult service lives. An aircraft containing a single escape rocket/catapult not up to man-rated standards is grounded for safety-of-flight. Spare inventories are limited to the lowest level that can be maintained without causing aircraft grounding due to shortfalls. Devices are also used in the operation of aircraft emergency safety systems. The FY 1999 budget request provides funding for the procurement of MK 122 parachute deployment rocket motors, MK 123/124 underseat rocket motors, MK 100 Rocket Motors, various miscellaneous devices, PIP and associated production engineering and integrated logistics support.</p> <p><u>PES</u>: Production Engineering Support efforts include the review of procurement requests, waivers and deviations, and technical support for First Article Testing/Lot Acceptance Testing. Conformance with new EPA regulations is part of the PES review.</p> <p><u>ILS</u>: Integrated Logistics Support provides ILS planning, maintenance standardization, supply support, development and implementation of a traceability system, and technical data programs.</p> <p><u>PIP</u>: Multi-year Product Improvement Programs consists of programs to ensure producibility and safety for the MK 109 Canopy Remover Rocket Motor, the MK 12/16/18 Rocket Catapults, and the MK 100/101/123/124 Underseat Rocket Motors.</p> <p>*FY 95 Only. Prior to FY 95, this program was funded in the Other Procurement, Navy appropriation.</p>												

P-1 SHOPPING LIST

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5									Weapon System						DATE: FEBRUARY 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition									ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Aircraft Escape Rockets/Catapults (Y1Q9)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS															
			Prior Years				FY 1996			FY 1997			FY 1998			FY 1999		
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost
	<u>SAFETY</u>																	
Q9070	MK122 Parachute Deploy. RKT Mtr(MT29)	A							0	126	3,013.00	380	223	3,076.27	686	123	3,141.00	386
Q9080	MK123 Underseat Rkt Mtr (MT30)	A							0	9	7,760.00	70	9	7,922.96	71	67	8,089.00	542
Q9081	MK124 Underseat Rkt Mtr (MT31)	A							0	18	7,760.00	140	9	7,922.96	71	132	8,089.00	1,068
Q9090	MK 100 Rkt Mtr (MD68)	A					45	9,620.74	433			0			0			0
Q9820	Reliability Life								560			556			627			656
Q9130	Misc Devices Under \$500K								5,508			3,400			2,743			3,206
Q9800	Integrated Logistics Support								570			710			872			931
Q9830	Production Engineering Support								868			908			901			927
Q9850	Product Improvement Program								1,832			1,156			1,712			1,959
Q9860	Acceptance Test								574			682			655			695
TOTAL			8,926						10,345			8,002			8,338			10,370

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE FEBRUARY 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE Aircraft Escape Rockets/Catapults			SUBHEAD (Y1Q9)		
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
<u>Q9070 MK 122 Parachute Deployment Rkt Mtr (MT29)</u>										
FY 97	126	3,013	NAVICP (Mechanicsburg, PA)	Jan 97	C/FP	UPCO (PHOENIX, AZ)	APR 97	APR 98	YES	
FY 98	223	3,076	TBD	TBD	C/FP	UNKNOWN	APR 98	APR 99	YES	
FY 99	123	3,141	TBD	TBD	C/FP	UNKNOWN	APR 99	APR 00	YES	
<u>Q9080 MK 123 Underseat Rkt Mtr (MT30)</u>										
FY 97	9	7,760	NAVICP (Mechanicsburg, PA)	Jan 97	C/FP	MARTIN-BAKER (LONDON, UK)	APR 97	APR 98	YES	
FY 98	9	7,923	TBD	TBD	C/FP	UNKNOWN	APR 98	APR 99	YES	
FY 99	67	8,089	TBD	TBD	C/FP	UNKNOWN	APR 99	APR 00	YES	
<u>Q9081 MK 124 Underseat Rkt Mtr (MT31)</u>										
FY 97	18	7,760	NAVICP (Mechanicsburg, PA)	Jan 97	C/FP	MARTIN-BAKER (LONDON, UK)	APR 97	APR 98	YES	
FY 98	9	7,923	TBD	TBD	C/FP	UNKNOWN	APR 98	APR 99	YES	
FY 99	132	8,089	TBD	TBD	C/FP	UNKNOWN	APR 99	APR 00	YES	
D. REMARKS										
*CONTRACTOR OWNED DATA PACKAGED.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										UNK										DATE FEBRUARY 1998																
APPROPRIATION/BUDGET ACTIVITY										Weapon System										P-1 ITEM NOMENCLATURE																
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS																				Aircraft Escape Rockets/Catapults (Y1Q9)																
						Production Rate			Procurement Leadtimes																											
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																						
All	Martin Baker - England					1	265	265		6	12		18	Each																						
	UPCO - Phoenix, Ariz.					1	UNK	UNK		6	12		18	Each																						
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998															FISCAL YEAR 1999															B A L
						1997			CALENDAR YEAR 1998												CALENDAR YEAR 1999															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Q9070 MK 122(MT29)		N																																		
Unknown	97		126	0	126							10	10	10	10	10	10	11	11	11	11	11	11								0					
Unknown	98		223	0	223							A												19	19	19	19	19	19		109					
Unknown	99		123	0	123																		A								123					
Q9080 MK 123 (MT30)		N																																		
Unknown	97		9	0	9							1	1	1	1	1	1	1	1	1											0					
Unknown	98		9	0	9							A												1	1	1	1	1	1		3					
Unknown	99		67	0	67																		A								67					
Q9081 MK 124 (MT31)		N																																		
Unknown	97		18	0	18							1	2	1	2	1	2	1	2	1	2	1	2	1	2						0					
Unknown	98		9	0	9							A												1	1	1	1	1	1		3					
Unknown	99		132	0	132																		A								132					
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000															FISCAL YEAR 2001															B A L
						1999			CALENDAR YEAR 2000												CALENDAR YEAR 2001															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Q9070 MK 122(MT29)		N																																		
Unknown	98		223	114	109	19	19	19	19	19	14																				0					
Unknown	99		123	0	123							10	10	10	10	10	10	10	10	10	10	13									0					
Q9080 MK 123 (MT30)		N																																		
Unknown	98		9	6	3	1	1	1																							0					
Unknown	99		67	0	67							6	6	6	6	6	6	6	6	6	6	1									0					
Q9081 MK 124 (MT31)		N																																		
Unknown	98		9	6	3	1	1	1																							0					
Unknown	99		132	0	132							11	11	11	11	11	11	11	11	11	11	11									0					
Remarks: * These items delivered in batches. The 10 units in MK123 and 20 units in the MK124 are options.																																				

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)					
Program Element for Code B Items: BA1 - NAVY AMMUNITION								Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		To Complete	Total
QUANTITY													
COST (In Millions)	*		\$22.3	\$20.4	\$22.2	\$29.1	\$45.8	\$49.3	\$45.5	\$58.4		CONT	CONT
<p>The Airborne Expendable Countermeasures (ABN EXPC/M) line provides funding for procurement of countermeasure self-protection devices for all Navy and Marine Corps tactical, rotary and slow fixed-wing aircraft. The ABN EXP C/M Program is divided into the following threat related categories: (a) air-launched chaff, (b) Radio Frequency (RF) Active jammers, (c) infrared (IR) decoys, (d) associated impulse cartridges, and (e) support costs.</p> <p>Active Jammers: The Advanced Airborne Electronic Decoy (AAED), part of the ALE-50 program, achieved a Milestone III Production Decision in FY 1997. Procurement of the AAED Towed Expendable Decoy began in FY 1997. The Fiber Optic Towed Decoy (FOTD) is part of the Integrated Defensive Electronic Countermeasure (IDECM) Radio Frequency Countermeasure (RFCM) program which is scheduled for Milestone III Production Decision in FY 2001. Limited Rate Initial Production (LRIP) of the FOTD will begin in FY 1999 based on an Operational Assessment (OA) beginning in FY 1998. AAED and FOTD were developed under PE 0604270N RDT&E, Project E2175.</p> <p>IR Decoys: The MJU-27A/B incorporates a safety enhancement and will replace the MJU-27/B beginning in FY 1996. Also, beginning in FY 1996 the MJU38 will replace the MJU8A/B and will be the infrared countermeasure used by high performance (tactical) aircraft, and the MJU32 will replace the MK 46 and will be the infrared countermeasure used by rotary and slow fixed-wing aircraft. The MJU32 and MJU38 incorporate several safety enhancements that will significantly lessen the hazards associated with handling and producing magnesium fueled devices. The MJU49/B is an IR countermeasure in support of H46/H53 requirements. Procurement will begin in FY 1998 for the MJU35 and MJU36 extended length decoys in support of F/A-18E/F testing. The SM875 is a dedicated, low cost training device. The MK28 is a decoy flare used for missile training and testing. Reprocurement to replenish inventory levels will begin in FY 1998. Procurement of the Advanced Strategic and Tactical Infrared (ASTE) Kinematic decoy, the MJU-47, the ASTE companion device, the MJU-48, and the ASTE covert device, the MJU-51, will begin in FY 2000. Procurement of the "BOL IR" device will also begin in FY 2000. All infrared decoys will be competitively procured by the Single Manager for Conventional Ammunition (SMCA).</p> <p>Impulse Cartridges: Used to propel the self-protection devices away from the aircraft. Beginning in FY 1997 the CCU136 will replace the CCU/63 and the CCU41/B. The BBU-36 is used with the MJU-47 and the BBU-35 is used with the MJU-48 and MJU-51.</p> <p>Support costs: Provide for required Production Engineering (PE), Product Improvement (PIP), Quality Assurance (QA), Acceptance Test and Evaluation (AT&E), and Integrated Logistic Support (ILS) by NAVAIR engineering/cognizant field activities.</p> <p>* FY 95 only. Prior to FY 95, this program was funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.</p>													

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5									Weapon System							DATE: February 1998		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS									ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS															
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999					
			Total Cost *	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
QA110	<u>ACTIVE JAMMERS</u> AAED (ALE-50)	B					92	25,872	2,380	156	22,747	3,549	117	21,961	2,569			
TBD	FOTD / IDECM	B											180	26,702	4,806			
TBD	FOTD (TRAINING)	B																
	<u>IR DECOYS</u>																	
QA130	MJU-27A/B DECOY DEVICE	A	24,497	100	2,449	66,300	91	6,022	60,480	94	5,703	28,800	84	2,417				
QA140	MJU-32/B ROTARY-WING DECOY	A	138,696	27	3,723	123,480	24	3,011	114,660	18	2,047	110,832	20	2,235				
QA150	MJU-38/B FIXED WING DECOY	A	131,094	33	4,285													
TBD	MJU-49/B DECOY DEVICE	A										35,262	137	4,820				
QA260	SM875 (TRAINING FLARE)	A	127,960	7	897	112,320	6	699										
QA260	SM875A (TRAINING FLARE)	A							155,520	7	1,158	164,160	7	1,075				
QA160	MK28 MOD 3 (TARGET FLARE)	A							30	212	6	30	217	7				
QA180	MJU-35/B DECOY DEVICE	A							1,000	129	129	3,000	123	368				
QA170	MJU-36B FIXED-WING DECOY	A							1,000	70	70	4,000	43	173				
TBD	MJU-47/B (ASTE)	B																
PAGE TOTAL						11,354			12,112			12,662			18,470			

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WEAPONS SYSTEM COST ANALYSIS P-5									Weapon System								DATE: February 1998		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS									ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																
			Prior Years	FY 1996			FY 1997			FY 1998			FY 1999						
			Total Cost *	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
QA070	<u>IMPULSE CARTRIDGES</u> CCU-63/B (IR DECOYS)	A		260,352	2	414													
QA080	CCU-41/B (CHAFF)	A	860	138,238	1	196													
QA090	CCU-136 (GENERIC)	A					390,265	2	882	430,735	2	995	488,880	2	1,154				
TBD	BBU-36B (KINEMATIC)	A																	
TBD	<u>CHAFF COUNTERMEASURES</u> RR-129A CHAFF CM	A																	
TBD	RR-144A TRNG CHAFF	A																	
QA240	RR-184 BOL CHAFF	A	1,954																
QA830	<u>SUPPORT COSTS</u> PRODUCTION ENGINEERING		1,960			2,467			1,967			2,509			2,910				
QA840	HQ IOC SUPPORT		491			2,301			1,029			505			189				
QA850	PRODUCT IMPROVEMENT		2,862			2,226			1,673			1,989			2,350				
QA860	ACCEPTANCE TEST & EVALUATION		3,672			2,987			2,424			3,229			3,661				
QA800	ILS		190			350			300			310			325				
P5 GRAND TOTAL			11,989			22,295			20,387			22,199			29,059				

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS						C. P-1 ITEM NOMENCLATURE AIRBORNE EXPENDABLE C/M PROGRAM			SUBHEAD Y1QA	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
ACTIVE JAMMERS										
AAED (ALE-50) (TBD) FY 97	92	25.872	Wright Pat AFB, OH	Dec-96	SS/FP	Raytheon, Goleta, CA	Jan-97	Mar-98	YES	
(TBD) FY 98	156	22.747	Wright Pat AFB, OH	Option	SS/FP	Raytheon, Goleta, CA	Jan-98	Mar-99	YES	
(TBD) FY 99	117	21.961	Wright Pat AFB, OH	Option	SS/FP	Raytheon, Goleta, CA	Jan-99	Mar-00	YES	
FOTD (IDECM) (TBD) FY 99	180	26.702	NAVAIR Wash DC	Jan-99	SS/FP	Sanders, Nashua, NH	Jun-99	Sep-00	NO	Nov-98
INFRARED DECOYS										
MJU-27A/B DECOY										
(EWAA) FY 96	24,497	0.100	SMCA Rock Island, IL	Dec-96	SS/FP	Alloy, Wilmington, DE	Dec-96	Jun-97	YES	
(EWAA) FY 97	66,300	0.091	SMCA Rock Island, IL	May-97	SS/FP	Alloy, Wilmington, DE	Apr-97	Sep-97	YES	
(EWAA) FY 98	60,480	0.094	SMCA Rock Island, IL	Dec-97	SS/FP	Alloy, Wilmington, DE	Apr-98	Sep-98	YES	
(EWAA) FY 99	28,800	0.084	SMCA Rock Island, IL	Dec-98	SS/FP	Alloy, Wilmington, DE	Apr-99	Sep-99	YES	
MJU-32/B ROTARY WING AIRCRAFT DECOY										
(LA01) FY 96	138,696	0.027	SMCA Rock Island, IL	Dec-96	C/FP	Kilgore, Toon, TN	Mar-97	Jul-97	YES	
(LA01) FY 97	123,480	0.024	SMCA Rock Island, IL	Feb-97	C/FP	Kilgore, Toon, TN	Mar-97	Feb-98	YES	
(LA01) FY 98	114,660	0.018	SMCA Rock Island, IL	Dec-97	C/FP	TBD	Mar-98	Sep-98	YES	
(LA01) FY 99	110,832	0.020	SMCA Rock Island, IL	Dec-98	C/FP	TBD	Mar-99	Jul-99	YES	
D. REMARKS										

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					C. P-1 ITEM NOMENCLATURE AIRBORNE EXPENDABLE C/M PROGRAM				SUBHEAD Y1QA	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
INFRARED DECOYS CONT										
MJU-38/B FIXED WING DECOY (LA02) FY 96	131,094	0.033	SMCA Rock Island, IL	Dec-96	C/FP	Kilgore, Toon, TN	Mar-97	Jul-97	YES	
MJU-49/B DECOY DEVICE (DWCI) FY 99	35,262	0.137	NSWC Crane, IN	Nov-98	SS/FP	Alloy, Wilmington, DE	Feb-99	Jun-99	YES	
SM875 TRNG FLARE (L540) FY 96	127,960	0.007	SMCA Rock Island, IL	Dec-96	C/FP	Martin, Perry, FL	Feb-97	May-97	YES	
(L540) FY 97	112,320	0.006	SMCA Rock Island, IL	May-97	C/FP	Martin, Perry, FL	Jun-97	Feb-98	YES	
SM875A TRNG FLARE (LA10) FY 98	155,520	0.007	SMCA Rock Island, IL	Dec-97	C/FP	TBD	Apr-98	Oct-98	YES	
(LA10) FY 99	164,160	0.007	SMCA Rock Island, IL	Dec-98	C/FP	TBD	Apr-99	Oct-99	YES	
MK-28 MOD 3 TARGET FLARE (LW39) FY 98	30	0.212	N/A	N/A	N/A	NSWC Crane, IN	Jan-98	Jun-98	YES	
(LW39) FY 99	30	0.217	N/A	N/A	N/A	NSWC Crane, IN	Jan-99	Jun-99	YES	
MJU-35/B DECOY DEVICE (DWCG) FY 98	1,000	0.129	NSWC Crane, IN	Oct-97	SS/FP	Alloy, Wilmington, DE	May-98	Oct-98	YES	
(DWCG) FY 99	3,000	0.123	NSWC Crane, IN	Oct-98	SS/FP	Alloy, Wilmington, DE	May-99	Oct-99	YES	
D. REMARKS										

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE February 1998		
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					C. P-1 ITEM NOMENCLATURE AIRBORNE EXPENDABLE C/M PROGRAM				SUBHEAD Y1QA	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>INFRARED DECOYS CONT</u>										
MJU-36B FIXED WING DECOY										
(DWCH) FY 98	1,000	0.070	N/A	N/A	N/A	NSWC Crane, IN	May-98	Oct-98	YES	
(DWCH) FY 99	4,000	0.043	N/A	N/A	N/A	NSWC Crane, IN	May-99	Oct-99	YES	
<u>IMPULSE CARTRIDGES</u>										
CCU-136 (GENERIC)										
(SS36) FY 97	390,265	0.002	NICP Mechanicsburg	Feb-97	C/FP	Tech Ord, St. Bonafacius,MN	Aug-97	Oct-97	YES	
(SS36) FY 98	430,735	0.002	NICP Mechanicsburg	Dec-98	C/FP	TBD	May-98	Oct-98	YES	
(SS36) FY 99	488,880	0.002	NICP Mechanicsburg	Dec-99	C/FP	TBD	May-99	Oct-99	YES	
D. REMARKS										

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FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE		February 1998													
APPROPRIATION/BUDGET ACTIVITY						Weapon System		P-1 ITEM NOMENCLATURE													
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)													
		Production Rate			Procurement Leadtime:																
Item	Manufacturer's Name and Location		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure										
AAED	Raytheon, Goleta, CA		TBD	TBD	TBD		4	14		18	EA										
FOTD	Sanders, Nashua, NH		TBD	TBD	TBD		9	15		24	EA										
MJU-27A/B	Alloy, Wilmington, DE		1,020	8,640	17,280		7	5		12	K										
MJU-32/B	Kilgore, Toon, TN		8,820	17,640	17,640		6	4		10	K										
MJU-38/B	Kilgore, Toon, TN		8,820	17,640	17,640		6	4		10	K										
MJU-49/B	Alloy, Wilmington, DE		1,020	8,640	17,280		5	4		9	K										

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L			
						1996			CALENDAR YEAR 1997												CALENDAR YEAR 1998												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AAED/RAYTHEON	97		92.0		92.0				A																		36.0						
AAED/RAYTHEON	98		156.0		156.0													A									156.0						
MJU-27A/B/ALLOY	96		24.5		24.5			A						8.1	8.2	8.2											0.0						
MJU-27A/B/ALLOY	97		66.3		66.3								A				5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8		0.0						
MJU-27A/B/ALLOY	98		60.5		60.5																A					5.5	55.0						
MJU-32/B/KILGORE	96		138.7		138.7								A			17.6	17.6	17.6	17.6	17.6	17.6	17.6	15.5				0.0						
MJU-32/B/KILGORE	97		123.5		123.5							A									2.1	17.6	17.6	17.6	17.6	17.6	15.8	0.0					
MJU-32/B/TBD	98		114.7		114.7																		A			1.8	112.9						
MJU-38B/KILGORE	96		131.1		131.1								A			8.8	17.6	17.6	17.6	17.6	17.6	17.6	16.7				0.0						

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L			
						1998			CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AAED (ALE-50)/RAYTHEON	97		92.0	56.0	36.0	8.0	8.0	8.0	8.0	4.0																	0.0						
AAED (ALE-50)/RAYTHEON	98		156.0		156.0						13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0						0.0						
AAED (ALE-50)/RAYTHEON	99		117.0		117.0				A													10.0	10.0	10.0	10.0	10.0	10.0	47.0					
FOTD (IDECM)/SANDERS	99		180.0		180.0									A												10.0	170.0						
MJU-27A/B DECOY/ALLOY	98		60.5	5.5	55.0	5.5	5.5	5.5	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8										0.0						
MJU-27A/B DECOY/ALLOY	99		28.8		28.8							A				2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4		0.0						
MJU-32/B/TBD	98		114.7	1.8	112.9	8.8	8.8	8.8	8.8	16.1	17.6	17.6	17.6	8.8													0.0						
MJU-32/B/TBD	99		110.8		110.8							A				8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	14.0		0.0						
MJU-49/B/ALLOY	99		35.3		35.3						A				2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4			0.0						

Remarks:

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21						DATE February 1998																													
APPROPRIATION/BUDGET ACTIVITY						Weapon System						P-1 ITEM NOMENCLATURE																							
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS												AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)																							
						Production Rate			Procurement Leadtime:																										
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1		ALT After Oct 1		Initial Mfg PLT			Reorder Mfg PLT		Total			Unit of Measure														
SM875	Martin, Perry, FL					8,640	8,640	17,280			7		6					13			K														
MK-28	NSWC Crane, IN					2	10	100			4		5					9			EA														
MJU-35/B	Alloy, Wilmington, DE					100	1,000	4,000			8		5					13			K														
MJU-36B	NSWC Crane, IN					100	1,000	4,000			8		5					13			K														
CCU-136	Tech Ord, St. Bonafacius,MN					10,000	40,000	80,000			8		5					13			K														
ITEM / MANUFACTURER						FISCAL YEAR 1997												FISCAL YEAR 1998												B A L					
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
SM875/MARTIN	96			128.0		128.0					A				8.6	8.6	8.6	17.3	17.3				17.3	17.3	17.3	15.7							0.0		
SM875/MARTIN	97			112.3		112.3																					9.8	17.6	17.6	17.6	17.6	17.6	14.5		0.0
SM875A/TBD	98			155.5		155.5																							A					155.5	
MK-28/NSWC CRANE *	98			30.0		30.0																									2.0	2.0	2.0	2.0	22.0
MJU-35/B/ALLOY	98			1.0		1.0																								A				1.0	
MJU-36B/NSWC CRANE	98			1.0		1.0																								A				1.0	
CCU-136/TECH ORD	97			390.3		390.3																												0.0	
CCU-136/TBD	98			430.7		430.7																									A			430.7	
ITEM / MANUFACTURER						FISCAL YEAR 1999												FISCAL YEAR 2000												B A L					
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
SM875A/TBD	98			155.5		155.5	8.6	8.6	8.6	8.6	8.6	17.3	17.3	17.3	17.3	17.3	8.7																	0.0	
SM875A/TBD	99			164.2		164.2													8.6	8.6	8.6	8.6	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	8.7		0.0	
MK-28/NSWC CRANE *	98			30.0	8.0	22.0	2.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0																				0.0	
MK-28/NSWC CRANE *	99			30.0		30.0				A					2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0							0.0		
MJU-35/B/ALLOY	98			1.0		1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																		0.0	
MJU-35/B/ALLOY	99			3.0		3.0													0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3			0.0	
MJU-36B/NSWC CRANE	98			1.0		1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																		0.0	
MJU-36B/CRANE	99			4.0		4.0													0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4			0.0	
CCU-136/TBD	98			430.7		430.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.8																	0.0	
CCU-136/TBD	99			488.9		488.9													40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	41.2		0.0	
Remarks:																																			
* MK-28/NSWC CRANE FY 1998 and FY 1999 quantities are each.																																			

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST
 311 / 244 ITEM NO 8 PAGE 9 Exhibit P-21 Production Schedule

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE MARINE LOCATION MARKERS (Y1Q6)					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY													
COST (In Millions)	1.1*	A	\$1.1	\$0.4	\$0.6	\$1.4	\$2.3	\$1.3	\$1.4	\$1.4	Continuing	Continuing	
<p>Marine Location Markers</p> <p>These items include both air-launched and hand-launched pyrotechnic devices. The aircraft launched units assist in visually locating sonobouys during anti-submarine operations. The hand launched units are used in a variety of situations which require a "marked spot" on the water surface, including man-overboard drills. The MK 58 was designed for day or night use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 40-60 minutes which is visible for at least three miles under normal operating conditions. The MK 25 is designed to launch from aircraft (primary) or surface craft to provide day/night reference-points in marking the course of enemy contacts. It is suitable for any type sea surface reference point marking that calls for both smoke and flame for approximately fifteen minutes.</p> <p>The current budget profile provides funding for support efforts (PES, ILS), procurement of non-standard items, renovation components, and product improvement programs (PIPs) for future procurements. Funds for PIP in FY 99 are required to complete testing and documentation of the MK 58 Mod 2. This modification makes the MK 58 unit in a standard sonobouy size and incorporates a scuttling device that will work for consumed or dud units. Additionally, it incorporates an arming switch as an additional safety feature in each marker configuration. Some minor hardware/material changes will be made at the same time for cost and ease of manufacture considerations.</p> <p>The significant increase in funding from FY 1998 to FY 1999 and out is associated with procurement of the new MK 58 units.</p> <p>* Reflects only FY 95 funding. Prior to FY 95, these programs were in the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) appropriations.</p>													
			<u>FY96</u> \$0.0	<u>FY97</u> \$0.0	<u>FY98</u> \$0.0	<u>FY99**</u> \$0.0	<u>FY00**</u> \$0.0	<u>FY01**</u> \$0.0	<u>FY02**</u> \$0.0	<u>FY03**</u> \$0.0			
NAVY RESERVE													
** Funding is below \$26K.													

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CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System						DATE: February 1998			
APPROPRIATION/BUDGET ACTIVITY										ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD								
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS											MARINE LOCATION MARKERS (Y1Q6)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																
			Prior Years**	FY 1996			FY 1997			FY 1998			FY 1999						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost				
Q6010	MK 58 MLM (L580)	A	-	-	-	-	-	-	-	-	-	-	2,173	180.41	392				
Q6800	Integrated Logistics Support		25			25			23			22			25				
Q6830	Prod. Engr. Services-Navy		247			524			146			263			345				
Q6831	Production Support-Army*								-			-			22				
Q6850	Product Improvement Program		465			490			203			333			542				
Q6892	Non-Standard Items		337			12			65			10			12				
Q6893	Renovation Components		14			12			10			10			12				
* Production Support Army is for Quality Assurance, Acceptance Testing and Industrial Stock Support.																			
** Reflects only FY 95. Prior to FY 95, these programs were funded in the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) appropriations.																			
			1,088			1,063			447			638			1,350				

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD Y1Q6	
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					MARINE LOCATION MARKERS					
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q6010 MK 58 MLM (L580)										
FY 92	20970	182.55	ARMY IOC (Rock Island, IL)	N/A	C/FP	CAAP	May-92	Nov-93	YES	
FY 93	17602	115.68	ARMY IOC (Rock Island, IL)	N/A	C/FP	CAAP	May-93	Aug-94	YES	
FY 99	2173	180.41	ARMY IOC (Rock Island, IL)	N/A	C/FP	UNKNOWN	Jan-99	Oct-00	YES	
D. REMARKS										
Pricing is provided by the Army and includes other services' buys.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21											DATE February 1997															
APPROPRIATION/BUDGET ACTIVITY											Weapon System					P-1 ITEM NOMENCLATURE										
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS																Marine Location Markers										
						Production Rate					Procurement Leadtimes															
Item		Manufacturer's Name and Location				MSR	1-8-5	MAX	ALT Prior to Oct 1			ALT After Oct 1			Initial Mfg PLT			Reorder Mfg PLT			Total	Unit of Measure				
MK 58 (L580)		Crane AAP, Crane, IN				12.67	13.82	40				3			21						24	TH				

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999												B A L
						1998			CALENDAR YEAR 1998									CALENDAR YEAR 1999												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q6010-MK 58 MLM (L580)																														
CRANE AAP	92	N	20.9	14.5	6.4												6.4												0.0	
CRANE AAP	93	N	17.6	0.0	17.6												3.0	9.5	5.1										0.0	
UNK	99	N	2.2	0.0	2.2																A								2.2	

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L
						1999			CALENDAR YEAR 2000									CALENDAR YEAR 2001												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q6010-MK 58 MLM (L580)																														
UNK	99	N	2.2	0.0	2.2																							0.0		

Remarks: FY 92/93 deliveries are delayed due to a test failure.
Production rates are provided by the Army and include other services' buys.

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1998					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS								P-1 ITEM NOMENCLATURE JATO (JET ASSISTED TAKE OFF) (Y1Q7)					
Program Element for Code B Items:								Other Related Program Elements					
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY													
COST													
(In Millions)	2.0**	A	\$4.8	\$5.4	\$4.4	\$3.9	\$5.0	\$5.0	\$4.9	\$5.0	Continuing	Continuing	
<p>Description: The JATOs currently in production are the MK 117 and MK 125. JATOs are relatively small solid propellant rocket motors used to assist aircraft during takeoff and to launch target drones and Remotely Piloted Vehicles (RPVs).</p> <p>Intended use: Two MK 117s are used to launch one BQM 74C target. One MK 125 is used to launch the Pioneer RPV.</p> <p>Product Improvement: Funds requested for the Product Improvement Program (PIP) support MK 117 design verification/qualification testing.</p> <p>**Reflects only FY 95 funding. Prior to FY 95, these programs were funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.</p>													
			<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>			
NAVY RESERVE			\$0.1	\$0.1	\$0.1	\$0.0*	\$0.1	\$0.1	\$0.1	\$0.1			
*Less than \$50K													

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WEAPONS SYSTEM COST ANALYSIS P-5										Weapon System							DATE: February 1998				
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS										ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD JATO (JET ASSISTED TAKE OFF) (Y1Q7)									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																		
			Prior Years**	FY 1996			FY 1997			FY 1998			FY 1999			FY 1995					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
Q7040	MK 117 MOD O ROCKET MOTOR	A	1,270	1,189	3175.78	3,926 *	1,396	3272.21	4,568	933	3323.04	3,100	601	3380.00	2,031						
Q7050	MK 125 RATO (H311)	A	485	-	-	-	-	-	-	82	3437.00	281	206	3495.00	721						
Q7800	Integrated Logistics Support		44			60			50			60			60						
Q7830	Production Engineering Support		250			404			445			414			451						
Q7850	Product Improvement Program		-			438			336			557			630						
			*Price includes \$150K to expedite deliveries. (This is not part of the unit cost.)																		
			**Reflects only FY 95 funding. Prior to FY 95, these programs were funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.																		

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					C. P-1 ITEM NOMENCLATURE JATO (JET ASSISTED TAKE OFF)				SUBHEAD Y1Q7	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q7040 MK 117 JATO ROCKET MOTOR (H341)										
FY 97	1,396	3272.21	NAVAIR	N/A	PO	NSWC IH (IH, MD)	Apr-97	Apr-98	YES	
FY 98	933	3323.04	NAVAIR	N/A	PO	UNKNOWN	Apr-98	Apr-99	YES	
FY 99	601	3380.00	NAVAIR	N/A	PO	UNKNOWN	Apr-99	May-00	YES	
Q7050 MK 125 RATO (H311)										
FY 94	452	3278.00	NSWC IH	Mar-95	C/FP	UNIVERSAL PROP.	Jun-95	Oct-97	YES	
FY 95	148	3278.00	NSWC IH	Mar-95	C/FP	UNIVERSAL PROP.	Jun-95	Jun-98	YES	
FY 98	82	3437.00	NSWC IH	Jan-98	C/FP	UNKNOWN	Apr-98	Apr-99	YES	
FY 99	206	3495.00	NSWC IH	Jan-99	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
D. REMARKS										

Exhibit P-21 Production Schedule

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION				SUBHEAD NO. A1AC BLIN: 025000	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		15.7	49.1	21.9	39.5	31.4	35.6	37.3
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This is a round of ammunition (separate loading ammunition) fired from cruiser and destroyer type combatant ships against air, surface, and shore targets. There are also numerous 5"/54 gun barrels located at schools and engineering test sites.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION	SUBHEAD NO. A1AC BLIN: 025000
<p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Navy.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 025000			P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION						SUBHEAD NO. A1AC	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AC100

5"/54 IMPROVED CONV. MUNITION DICM FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Nov-97	Mar-98	Nov-99	14328	2165.06	YES	NO	
5"/54 PROJ HE MFF MFFP FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Nov-98	Mar-99	Feb-01	5469	1584.49	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE 5"/62 CAL EXTENDED RANGE GUIDED MUNITION (ERGM)				SUBHEAD NO. A1AK BLIN: 025300	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		0	0	27.5	8.2	25.4	46.5	72.4
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>The Extended Range Guided Munition (ERGM) is a key element in providing a near term Naval Surface Fire Support (NSFS) capability. The NSFS mission is to support the U.S. and allied assault landing forces through increased range and accuracy.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE 5"/62 CAL EXTENDED RANGE GUIDED MUNITION (ERGM)	SUBHEAD NO. A1AK BLIN: 025300
<p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Navy.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 025300			P-1 ITEM NOMENCLATURE 5"/62 CAL EXTENDED RANGE GUIDED MUNITION						SUBHEAD NO. A1AK	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AK100

5"/62 EXT RANGE GUIDED MUNITION ERGM FY 1999	UNKNOWN	CONTRACT	UNKNOWN	Nov-98	Apr-99	Oct-01	410	45000.00	NO	YES	Jul-98
5"/62 CHG, f/ERGM ECHG FY 1999	UNKNOWN	MIPR	UNKNOWN	Nov-98	Mar-99	Nov-00	420	2000.00	NO	YES	Jul-98
5"/62 SLUG ESLG FY 1999	UNKNOWN	MIPR	UNKNOWN	Nov-98	Mar-99	Nov-00	10	5000.00	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE CIWS GUN AMMUNITION				SUBHEAD NO. A1AE BLIN: 026000	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		0.0	0.5	0.7	0.7	2.1	2.1	2.2
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This ammunition is fired by the Phalanx Close-In Weapon System (CIWS) 20MM gatling gun for terminal defense against missiles and aircraft. At the end of FY 99 there will be CIWS systems installed on the following ship types: carriers, cruisers, destroyers, frigates, fast combat support (AOE), amphibious command (LCC), amphibious assault (LHA) and (LPH), amphibious transport dock (LPD), landing ship dock (LSD), and high endurance cutters (WHEC). Guns will also be located at designated school commands and engineering test sites.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE CIWS GUN AMMUNITION	SUBHEAD NO. A1AE BLIN: 026000	
<p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Single Manager Conventional Ammunition (SMCA). Ammunition prices are based on the most recent SMCA standard/non-standard price list.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 026000			P-1 ITEM NOMENCLATURE CIWS GUN AMMUNITION						SUBHEAD NO. A1AE	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AE100												
CTG. 20MM, PLASTIC DUMMY AA20												
FY 1995	LCAAP		MIPR	ARDEC	Jun-96	Sep-96	Jun-98	272000	5.33	YES	NO	
FY 1998	UNKNOWN		MIPR	ARDEC	Oct-97	Feb-98	Apr-99	64200	5.50	YES	NO	
FY 1999	UNKNOWN		MIPR	ARDEC	Oct-98	Feb-99	Apr-00	98550	5.67	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION				SUBHEAD NO. A1AF BLIN: 026500	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		2.7	3.4	3.8	4.9	4.6	4.7	4.8
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>The 76MM cartridge is a fixed round of ammunition for use in the MK 75 gun mount. It is used primarily against air targets but also may be used against surface and shore targets. The weapon system (MK 75 gun mount and MK 92 fire control system) has been designated for use on guided missile frigates (FFG), and United States Coast Guard (USCG) ships. At the end of FY 99, this weapon system will be installed on guided missile frigates (FFG) and USCG ships. There are also numerous 76MM barrels located at schools and engineering test sites.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION	SUBHEAD NO. A1AF BLIN: 026500	
<p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Single Manager Conventional Ammunition (SMCA). Ammunition prices are based on the most recent SMCA standard/non-standard price list.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 026500			P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION						SUBHEAD NO. A1AF	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AF100												
76MM BL+P C062												
FY 1998		UNKNOWN	MIPR	AMCCOM DRSMC	Dec-97	May-98	Nov-99	5152	521.00	YES	NO	
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Dec-98	May-99	Nov-00	4965	572.08	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

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NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION				SUBHEAD NO. A1AG BLIN: 027000	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		4.0	4.4	4.5	5.3	4.6	5.4	5.6
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This program provides ammunition (20MM through 84MM cartridges and rockets) in support of active Navy ships, and for active and reserve ashore warfare forces including mobile construction battalions (MCB), amphibious construction battalions (ACB), fleet combat readiness groups, inshore undersea warfare groups, and several other types of operational units.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION	SUBHEAD NO. A1AG BLIN: 027000
<p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are procure the gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Single Manager Conventional Ammunition (SMCA). Ammunition prices are based on the most recent SMCA standard/non-standard price list.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			WEAPONS SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 027000			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION				SUBHEAD NO. A1AG	
Cost Code	Element of Cost	Ident. Code			FY 97		FY 98		FY 99	
			QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AG100										
	25MM CARTRIDGES									
	25MM, SAPHEI-T	A991							104995	2103
	40MM CARTRIDGES (GRENADE)									
	40MM, BLANK, SALUTING	B650			14652	380			8532	718
	40MM, CS	BA05			4045	204				
	60MM CARTRIDGES									
	60MM, HE	B643					12672	1411	4096	430
	60MM, SMOKE, WP	B646							2379	533
	60MM, ILLUM	B647			7200	2906	4928	2535		
	PE/QA (SMCA)									198
AG830	PRODUCTION ENGINEERING					356		385		398
AG850	PRODUCT IMPROVEMENT					110		24		66
AG892	NON-STANDARD ITEMS					15		19		20
AG893	RENOVATION COMPONENTS					50				54
AG894	GAUGE REQUIREMENTS					25		27		28
	TOTAL					4046		4401		4548

APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 027000			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION						SUBHEAD NO. A1AG	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AG100

25MM CARTRIDGES

CTG, 25MM SAPHEI-T A991

FY 1993	ALLIANT	MIPR	AMCCOM DRSMC	Oct-92	Jul-95	Jan-98	443361	16.27	YES	NO	
FY 1994	ALLIANT	MIPR	AMCCOM DRSMC	Oct-93	Jul-95	Jun-98	306639	16.27	YES	NO	
FY 1995	ALLIANT	MIPR	AMCCOM DRSMC	Oct-94	Jan-97	Nov-98	108170	19.60	YES	NO	
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Aug-00	104995	20.03	NO	YES	Jul-98

40MM CARTRIDGES (GRENADE)

CTG, 40MM, BLANK, SAL (350 & 200 GRAMS) B650

FY 1996	MILAN AAP	MIPR	AMCCOM DRSMC	Feb-96	Jun-96	Sep-97	9000	89.13	YES	NO	
FY 1997	MILAN AAP	MIPR	AMCCOM DRSMC	Oct-96	Jan-97	Feb-98	14652	25.95	YES	NO	
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Nov-99	8532	84.20	NO	YES	Jul-98

60MM CARTRIDGES

CTG. 60MM, HE B643

FY 1995	MILAN AAP	MIPR	AMCCOM DRSMC	Dec-94	Mar-95	Jan-98	25264	82.63	YES	NO	
FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Jan-98	Oct-99	12672	111.37	YES	NO	
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Oct-00	4096	104.86	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 027000			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION						SUBHEAD NO. A1AG	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AG100 CONTINUED
60MM CARTRIDGES
CTG. 60MM, SMOKE, WP B646

FY 1993	MILAN AAP	MIPR	AMCCOM DRSMC	Jan-93	Nov-93	Feb-98	12784	120.26	YES	NO		
FY 1995	PINE BLUFF AAP	MIPR	ARDEC	Dec-94	Apr-95	Feb-98	7888	138.28	YES	NO		
FY 1999	UNKNOWN	MIPR	ARDEC	Oct-98	Jan-99	Oct-00	2379	224.19	NO	YES		Jul-98

CTG. 60MM, ILLUM B647

FY 1993	PINE BLUFF AAP	MIPR	ARDEC	Dec-92	Mar-93	Jan-98	3216	244.98	YES	NO		
FY 1995	PINE BLUFF AAP	MIPR	ARDEC	Mar-95	Sep-95	Mar-98	13056	372.11	YES	NO		
FY 1996	PINE BLUFF AAP	MIPR	ARDEC	Feb-96	Jan-97	Aug-98	8688	444.48	YES	NO		
FY 1997	PINE BLUFF AAP	MIPR	ARDEC	Oct-96	Feb-97	Oct-98	7200	403.56	YES	NO		
FY 1998	UNKNOWN	MIPR	ARDEC	Oct-97	Apr-98	Oct-99	4928	514.29	YES	NO		

NOTE: All items shown are priced with available GFM.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION				SUBHEAD NO. A1AH BLIN: 033500	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		3.1	7.6	7.8	8.1	8.9	9.1	9.3
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This program provides ammunition in support of active Navy ships and for active and reserve ashore warfare forces including: mobile construction battalions (MCB), amphibious construction battalions (ACB), fleet combat readiness groups, inshore undersea warfare groups, and several other types of operational units.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION	SUBHEAD NO. A1AH BLIN: 033500	
<p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Single Manager Conventional Ammunition (SMCA). The most recent SMCA standard/non standard price list has been used in pricing the ammunition.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			WEAPONS SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 033500			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION				SUBHEAD NO. A1AH	
Cost Code	Element of Cost	Ident. Code			FY 97		FY 98		FY 99	
			QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AH100										
	SHOTGUN CARTRIDGES									
	CTG. 12 GA, NO.00	A011							286720	100
	7.62MM CARTRIDGES									
	CTG. 7.62MM, LKD, BALL & TRACER	A131					1260395	756		
	CTG. 7.62MM, BALL, LINKED M80	A143					1000000	560	1500000	630
	CTG. 7.62MM, DIM TRACE M80/M276	A257			447000	376	3500000	1925	2047500	799
	CTG. 7.62MM MATCH	AA11							600000	312
	9MM CARTRIDGES									
	CTG. 9MM, BALL	A363			11164000	1455	10000000	1500	10000000	1400
	CTG. 9MM, BLANK	TBA			7300	8				
	.45 CAL CARTRIDGES									
	CTG. .45 CAL, BALL, WADCUTTER	A470					220000	55	131200	30
	CTG. .45 CAL, BALL, M1911, MAT	A483			220000	42				
	SUBTOTAL PAGE 1					1881		4796		3271

[illegible]

APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 033500			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION						SUBHEAD NO. A1AH	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AH100

SHOTGUN CARTRIDGES

CTG. 12 GA. NO. 00 A011

FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Aug-99	286720	0.35	NO	YES	Jul-98
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7.62MM CARTRIDGES

CTG. 7.62MM, LKD, BALL & TRACER A131

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	1260395	0.60	YES	NO	
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CTG. 7.62MM BALL, LINKED M80 A143

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	1000000	0.56	YES	NO	
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FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	Nov-99	1500000	0.42	NO	YES	Jul-98
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CTG. 7.62MM DIM TRACE M80/M276 A257

FY 1997	LCAAP	MIPR	AMCCOM DRSMC	Oct-96	Dec-96	Nov-97	447000	0.84	YES	NO	
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FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	3500000	0.55	YES	NO	
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FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	Nov-99	2047500	0.39	NO	YES	Jul-98
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CTG. 7.62MM MATCH AA11

FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	Nov-99	600000	0.52	NO	YES	Jul-98
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NOTE: All items shown are priced with available GFM.

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 033500			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION						SUBHEAD NO. A1AH	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AH100 CONTINUED												
9MM CARTRIDGES												
CTG. 9MM BALL A363												
FY 1997		OLIN CORPORATION	MIPR	AMCCOM DRSMC	Oct-96	Feb-97	Aug-97	11164000	0.13	YES	NO	
FY 1998		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Aug-98	10000000	0.15	YES	NO	
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Aug-99	10000000	0.14	NO	YES	Jul-98
.45 CAL CARTRIDGES												
CTG. .45 CAL, BALL, WADCUTTER, MG A470												
FY 1998		UNKNOWN	COMM	NSWC CRANE	Oct-97	Feb-98	Aug-98	220000	0.25	YES	NO	
FY 1999		UNKNOWN	COMM	NSWC CRANE	Oct-98	Feb-99	Aug-99	131200	0.23	NO	YES	Jul-98
.50 CAL CARTRIDGES												
CTG. .50 CAL. LKD, BALL A555												
FY 1998		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	400000	1.90	YES	NO	
CTG. .50 CAL. MK 211, APIT, M2 AA06												
FY 1998		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	364600	3.09	YES	NO	
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	Nov-99	1083500	3.18	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

[illegible]

[illegible]

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL				SUBHEAD NO. A1AJ BLIN: 034000	
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		9.9	10.0	8.9	10.5	10.6	10.9	11.2
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This program provides pyrotechnics and demolition materials for all active naval vessels, amphibious and mobile construction battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, fleet composite operational readiness groups (formerly beachjumper units (BJU's)) and explosive ordnance disposal groups/mobile units/detachments/teams. This program also provides materials to support the ship shock test program.</p> <p>Pyrotechnics are required to support surface, air, ground, and underwater Navy requirements. These items consist of illumination, signalling, identification, and location devices using flare or smoke as the primary signalling agent. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search and rescue operations. Demolitions consist of explosive devices and accessories required for fleet units to perform training functions and operations. Fleet requirements are based upon CNO approved allowance lists for special needs (on a case by case basis) and worldwide fleet expenditures.</p> <p><u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL	SUBHEAD NO. A1AJ BLIN: 034000
<p><u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor/manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p> <p><u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.</p> <p>All ammunition procured with these funds is procured through the Single Manager Conventional Ammunition (SMCA). The most recent SMCA standard/non-standard price list has been used in pricing the ammunition.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			WEAPONS SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION				SUBHEAD NO. A1AJ	
Cost Code	Element of Cost	Ident. Code			FY 97		FY 98		FY 99	
			QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AJ100										
	SIGNALS									
	SIGNAL KIT, PERS DISTRESS	L118					14790	449		
	SIGNAL, HAND FIRED KIT, VARIATION	L131					7140	142		
	SIGNAL, ILLUM, MARINE, RED	L191					20688	2047	9480	920
	SIGNAL, ILLUM, MARINE, YELLOW	L192					20688	2047	6744	655
	SIGNAL, ILLUM, MARINE RED STA	L193					13344	959	6744	485
	SIGNAL, SMOKE, MK 2, RED ROCKET	L201					9768	702		
	MARKER, LOCATION, SUB, MK 66/21, RED	L266							1500	767
	SIGNAL, SMOKE ILLUM, MARINE, GREEN	L269			615	353				
	SIGNAL, SMOKE ILLUM, MARINE, DISTRESS	L283			30024	1165				
	LIFE RAFT SIGNAL KITS	L564			4000	80				
	TRAINING DEVICES									
	SIM, PROJ, AIRBURST, M74	L366			10000	216				
	SIM, HAND GRENADE	L601			3000	10				
	MINE, CHGS, AND CHG CONTAINERS									
	CHG, ASSY, DEML, M183/37	M757			2500	1512				
	CHG, DEML, SHAPED, FLEX-LIN (30)	ML10			414	9				
	CHG, DEML, SHAPED, FLEX-LIN (60)	ML12			1008	42				
	CHG, DEML, SHAPED, FLEX-LIN (225)	ML15			600	28				
	CHG, DEML, SHAPED, FLEX-LIN (300)	ML16							1500	87
	CHG, DEML, SHAPED, FLEX-LIN (400)	ML17			405	22				
	CHG, DEML, SHAPED, FLEX-LIN (600)	ML19			702	31				
	CHG, SPL CUT, TAPE, 63 GM/MT	MM24					10080	149		
	CHG, BOOSTER, 20 GM, MK 140	MM30							20160	30
	SUBTOTAL					3468		6495		2944

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			WEAPONS SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION				SUBHEAD NO. A1AJ	
Cost Code	Element of Cost	Ident. Code			FY 97		FY 98		FY 99	
			QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AJ100	CONTINUED									
	CUTTERS AND CARTRIDGES									
	CTG. IMPULSE, MK 148/0	M663					100	88		
	CART PRESSURE	MW97					200	314		
	CTG. 50 CAL, MK 209	SS01							9996	352
	SHOCK TEST CHARGE									
	SHOCK TEST CHARGE, 10000 LB	6W57					10	359		
	BOOSTER CONT F/1200 LB SHOCK TEST	9W49					20	90		
	SHOCK TEST CHARGE, 60 LB	XW65			100	110			155	206
	PE/QA (SMCA)									65
AJ830	PRODUCTION ENGINEERING					825		1000		970
AJ850	PRODUCT IMPROVEMENT					950		800		900
AJ893	RENOVATION COMPONENTS					183		150		100
AJ894	GAUGE REQUIREMENTS					50		40		41
AJ895	NON-STANDARD ITEMS					204		175		180
	SUBTOTAL					2322		3016		2814
	TOTAL					9918		9995		8938

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION						SUBHEAD NO. A1AJ	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AJ100

SIGNALS

SIGNAL KIT, PERS DISTRESS L118

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Apr-98	May-99	14790	30.34	YES	NO	
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SIGNAL, HAND FIRED KIT, VARIATION L131

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Apr-98	Aug-99	7140	19.90	YES	NO	
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SIGNAL, ILLUM, MARINE, RED L191

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	20688	98.97	YES	NO	
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Apr-00	9480	97.08	NO	YES	Jul-98

SIGNAL, ILLUM, MARINE, YELLOW L192

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	20688	98.97	YES	NO	
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Apr-00	6744	97.08	NO	YES	Jul-98

SIGNAL, ILLUM, MARINE, RED STA L193

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	13344	71.90	YES	NO	
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Apr-00	6744	71.95	NO	YES	Jul-98

SIGNAL, SMOKE, MK 2, RED ROCKET L201

FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	9768	71.90	YES	NO	
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MARKER, LOCATION, SUB, MK 66/21, RED L266

FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Oct-00	1500	511.10	NO	YES	Jul-98
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NOTE: All items shown are priced with available GFM.

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION						SUBHEAD NO. A1AJ	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AJ100	CONTINUED											
	MINE, CHGS, AND CHG CONTAINERS											
	CHG, DEML, SHAPED, FLEX-LIN ML16											
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Apr-99	Sep-00	1500	57.86	NO	YES	Jul-98
	CHG, XPL CUT, TAPE, 63 GM/MT MM24											
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Apr-98	Jul-99	10080	14.79	YES	NO	
	CHG, BOOSTER, 20 GM, MK 140 MM30											
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Apr-99	Sep-00	20160	1.48	NO	YES	Jul-98
	DET CORD, CAPS, AND FUZES											
	LEAD PROTECTOR/ADAPTER MK 177 DWBY											
	FY 1998	UNKNOWN	CONTRACT	NSWC CRANE	Oct-97	Apr-98	Apr-99	10000	5.15	YES	NO	
	CORD, DETONATING, PRIMACORD, PETN M456											
	FY 1997	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-96	Jan-98	Nov-98	300000	0.16	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Apr-99	Nov-99	448000	0.16	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION						SUBHEAD NO. A1AJ	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AJ100 CONTINUED

DET CORD, CAPS, AND FUZES CONT.
FUZE, BLASTING, TIME M670

FY 1997	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-96	Sep-97	Aug-98	300000	0.14	YES	NO		
FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Jan-98	Aug-98	248000	0.15	YES	NO		
FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Aug-99	248000	0.13	NO	YES		Jul-98

SQUIB, ELECTRIC, MK 20 MOD 0 MG61

FY 1995	NSWC IH	CONTRACT	NSWC CRANE	Oct-94	Mar-97	Jun-98	6150	20.00	YES	NO		
FY 1999	UNKNOWN	CONTRACT	NSWC CRANE	Oct-98	Feb-98	Oct-99	8000	22.47	NO	YES		Jul-98

NON-ELEC DET W/IN-LINE INITIATOR MMX3

FY 1998	UNKNOWN	CONTRACT	NSWC CRANE	Oct-97	Apr-98	Sep-99	10000	39.47	YES	NO		
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ACOUSTIC FIRING SYSTEM NZZZ

FY 1999	UNKNOWN	CONTRACT	NSWC CRANE	Oct-98	Feb-99	Oct-00	740	3913.51	NO	YES		Jul-98
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CUTTERS AND CARTRIDGES
CTG, IMPULSE, MK 148/0 M663

FY 1998	UNKNOWN	CONTRACT	SPCC	Oct-97	Feb-98	Oct-99	100	879.12	YES	NO		
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NOTE: All items shown are priced with available GFM.

APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1998	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION						SUBHEAD NO. A1AJ	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

AJ100 CONTINUED

CUTTERS AND CARTRIDGES CONT.
CART PRESSURE MW97
FY 1998 UNKNOWN CONTRACT SPCC Oct-97 Jul-98 Jan-99 200 1569.12 YES NO

CTG, 50 CAL, MK 209 SS01
FY 1995 UNKNOWN CONTRACT NSWC IH Dec-94 Sep-97 May-98 3374 24.00 YES NO
FY 1996 UNKNOWN CONTRACT NSWC IH Feb-96 Sep-97 May-98 1626 24.00 YES NO
FY 1999 UNKNOWN MIPR AMCCOM DRSMC Oct-98 Feb-99 Feb-00 9996 35.23 NO YES Jul-98

SHOCK TEST CHARGES
SHOCK TEST CHARGE, 10000 LB 6W57
FY 1998 UNKNOWN MIPR AMCCOM DRSMC Oct-97 Feb-98 Apr-99 10 35866.27 YES NO

BOOSTER CONT F/1200 LB SHOCK TEST 9W49
FY 1998 UNKNOWN MIPR AMCCOM DRSMC Oct-97 Jan-98 Jun-99 20 4475.32 YES NO

SHOCK TEST CHARGE, 60 LB XW65
FY 1996 CRANE AAA MIPR AMCCOM DRSMC Apr-96 May-96 Feb-98 100 1427.85 YES NO
FY 1997 CRANE AAA MIPR AMCCOM DRSMC Jan-97 Feb-97 Sep-98 100 1099.93 YES NO
FY 1999 UNKNOWN MIPR AMCCOM DRSMC Oct-98 Dec-98 May-00 155 1328.69 NO YES Jul-98

NOTE: All items shown are priced with available GFM.

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BUDGET ITEM JUSTIFICATION SHEET						DATE:					
P-40						February 1998					
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE/LINE ITEM #					
PROCUREMENT OF AMMUNITION, NAVY/MARINE CORPS						MINE NEUTRALIZATION DEVICES/035000					
BA-1: NAVY AMMUNITION						OTHER RELATED PROGRM ELEMENTS					
Program Element for Code B Items:						N/A					
	Prior Years	ID Code	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY											
EQUIPMENT COST (In Millions)	N/A	A	\$5.7	\$6.2	\$7.9	\$9.3	\$9.6	\$9.3	\$9.5	N/A	\$57.5
SPARES COST (In Millions)	N/A	A	\$0.9	\$0.5	\$0.8	\$0.5	\$0.8	\$0.5	\$0.5	N/A	\$4.5
PROGRAM DESCRIPTION/JUSTIFICATION:											
<p>Mine Neutralization Devices are utilized in conjunction with minehunting systems to destroy mines that cannot be countered by normal minesweeping techniques. Once the mine is physically located, an explosive charge is placed in close proximity to neutralize the mine.</p> <p>The Mine Neutralization System (MNS) was granted Approval for Full Rate Production in August 1991. The MNS is the primary weapon system for the MCM and MHC class ships. The Mine Neutralization Vehicle can drop a MK57 Destructor charge (MP-2) near a bottom mine to neutralize it. The vehicle is also capable of attaching a MK 26 Cable Cutter (MP-1) to a Moored Mine. MP-3 utilizes a modified MK 26 (MP-1) cable cutter and a MK57 Destructor (MP-2) together with floats to neutralize moored mines in place.</p>											

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE February 1998			
B. APPROPRIATION/BUDGET ACTIVITY Procurement of Ammunition, Navy/Marine Corps BA-1: NAVY AMMUNITION					C. P-1 ITEM NOMENCLATURE MINE NEUTRALIZATION DEVICES				SUBHEAD 71U4	
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>FISCAL YEAR (97)</u> U4005/MK 57 BOMBLET	109	16.5	Indian Head, MD	N/A	C/FFP	TOLO INC Santa Ana, CA	5/97	12/97*	YES	
U4007/MP-3 DEVICE	178	12.3	Indian Head, MD	N/A	PO	NOC/IHDIV	5/97	11/98	YES	
<u>FISCAL YEAR (98)</u> U4005/MK 57 BOMBLET	110	17.0	NAVSEA	3/98	C/FFP	UNKNOWN	3/98	9/99*	YES	
U4007/MP-3 DEVICE	190	12.9	NAVSEA	3/98	C/FFP	UNKNOWN	3/98	9/99	YES	
<u>FISCAL YEAR (99)</u> U4005/MK 57 BOMBLET	146	17.6	NAVSEA	3/98	C/FFP	UNKNOWN	12/98	3/00*	YES	
U4007/MP-3 DEVICE	204	13.6	NAVSEA	3/98	C/FFP	UNKNOWN	12/98	3/00	YES	
D. REMARKS										
<div> * Delivery dates shown are for complete Destructor MK 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices MK 35 by NSWC, Indian Head Division. Anticipated increased lead time in FY98 and FY99 when contract is competitively awarded. </div>										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1998			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY/MARINE CORPS					Weapon System		P-1 ITEM NOMENCLATURE MINE NEUTRALIZATION DEVICES			
		Production Rate			Procurement Leadtimes					
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
MK 57 BOMBLET	TOLO INC/SANTA ANA, CA	10	15	25	0	3	18	12	21	EACH
	UNKNOWN									
MP-3 DEVICE	NSWC IHDIV	20	30	40	0	3	18	12	21	EACH
	UNKNOWN									

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1997												FISCAL YEAR 1998												B A L	
						1996			CALENDAR YEAR 1997									CALENDAR YEAR 1998													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
MK57 BOMBLET/TOLO INC*	97	EA	109	0	109									A																	0
MK57 BOMBLET/UNKNOWN*	98	EA	110	0	110																										110
MK57 BOMBLET/UNKNOWN*	99	EA	146	0	146																										146
MP-3 DEVICE/NOC/IHDIV	97	EA	178	0	178									A																	178
MP-3 DEVICE/UNKNOWN	98	EA	190	0	190																										190
MP-3 DEVICE/UNKNOWN	99	EA	204	0	204																										204

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L		
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
MK57 BOMBLET/TOLO INC*	97	EA	109	109	0																										0	
MK57 BOMBLET/UNKNOWN*	98	EA	110	0	110																										0	
MK57 BOMBLET/UNKNOWN*	99	EA	146	0	146				A																						34	
MP-3 DEVICE/NOC/IHDIV	97	EA	178	0	178		20	20	20	20	20	20	20	20	20	20	18															0
MP-3 DEVICE/UNKNOWN	98	EA	190	0	190																										0	
MP-3 DEVICE/UNKNOWN	99	EA	204	0	204				A																						0	

Remarks: *Delivery dates shown are for complete Destructor MK 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices MK 35 by NSWC IHDIV.

